

**UNCLASSIFIED**

---

**AD 297 154**

*Reproduced  
by the*

**ARMED SERVICES TECHNICAL INFORMATION AGENCY  
ARLINGTON HALL STATION  
ARLINGTON 12, VIRGINIA**



---

**UNCLASSIFIED**

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

63-2-5

CATALOGED BY ASIHA  
AS AD NO 297154

The Marine Laboratory  
Institute Of Marine Science  
UNIVERSITY OF MIAMI

62-11

A REPORT OF DATA  
OBTAINED IN FLORIDA STRAITS AND  
OFF THE WEST COAST OF FLORIDA  
JANUARY - JUNE 1962

Submitted to

The Office of Naval Research  
Contract Nonr 840 (01)

297 154

RECEIVED  
FEB 27 1963  
TICA



MIAMI 49, FLORIDA

INSTITUTE OF MARINE SCIENCE  
The Marine Laboratory  
University of Miami

---

Report No. 62-4 (A report of data obtained in  
Florida Straits and off the west coast of Florida  
January - June 1961)

CORRIGENDA

Page 30: Cr. G 6106, Sta. 0130.  
Longitude should read "79°24' W."

Page 54: Cr. G 6109, Sta. 0204.  
Time should read "22"

Pages 71, 72, 73: Cr. G 6109, Stas. 0278, 0280, 0281,  
0282, 0284, 0285, 0286, 0287, 0289, 0290.  
Day should read "25"



R/V GERDA during quadrennial overhaul  
(Photo.: The Marine Laboratory)

(Frontispiece)

INSTITUTE OF MARINE SCIENCE  
The Marine Laboratory  
University of Miami

62-11

A REPORT OF DATA  
OBTAINED IN FLORIDA STRAITS AND  
OFF THE WEST COAST OF FLORIDA  
JANUARY - JUNE 1962

Submitted  
December 1962

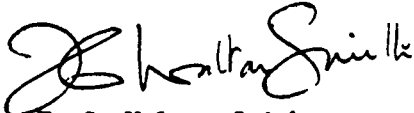
to

The Office of Naval Research  
Contract Nonr 840 (01)

"Reproduction in whole or in part is permitted  
for any purpose of the U. S. Government."

1 Rickenbacker Causeway  
Miami 49, Florida

8825  
ML 63116

  
F. G. Walton Smith  
Director

## LIST OF CONTENTS

	R/V GERDA	Frontispiece
I.	Introduction . . . . .	Page 1
II.	Oceanographic Station Data . . . . .	6
	Cruise G 6204: April 20-27 . . . . .	8
	Cruise G 6207: May 12 . . . . .	24
	Cruise G 6208-G 6209: May 16-17; May 21-24 . .	26
	Cruise G 6213: June 5-15 . . . . .	40
	Cruise G 6215: June 25-28 . . . . .	59
	Cruise GS 6201: January 24-26 . . . . .	70
	Cruise GS 6202: February 19-22 . . . . .	76
	Cruise GS 6203: March 15-16 . . . . .	85
	Cruise GS 6204: March 28-29 . . . . .	90
	Cruise GS 6205: April 18-21 . . . . .	92
	Cruise GS 6206: May 22-24 . . . . .	99
	Cruise GS 6207: June 5-7 . . . . .	105
III.	Bathymograph Traces . . . . .	111
IV.	List of Codes Used . . . . .	138
V.	Distribution List . . . . .	139

A REPORT OF DATA OBTAINED IN FLORIDA STRAITS AND  
OFF THE WEST COAST OF FLORIDA  
JANUARY - JUNE 1962

I. INTRODUCTION

General Description

The data presented herewith were collected during the first half of 1962 on six cruises with the R/V GERDA and seven cruises with the M/V GREEN SEAS in Florida Straits, the eastern part of the Gulf of Mexico, and the Yucatan Channel. The data were obtained for studies of the oceanographic conditions prevailing in Florida Straits and adjacent waters, with particular regard to the kinematics of the water movements and also to the physical environment of the shrimp population inhabiting the region of the Tortugas Shelf.

The tracks of the vessels and the positions at which observations were made are shown in charts immediately preceding the list of oceanographic station data relating to each cruise.

The cruises with the GERDA were sponsored by the Office of Naval Research under Contract Nonr 840 (01) and the National Science Foundation. The cruises with the GREEN SEAS were sponsored by the Bureau of Commercial Fisheries of the Department of the Interior under Contract No. 14-17-0002-4.

Navigation

The R/V GERDA and her equipment were described in previous data reports (U. of M. Reports 61-1, 61-3, and 62-4). During the quadrennial overhaul, early in 1962, the following changes and replacements were made:

1. Two 25 KW AC diesel generators with a completely new electrical distribution board were installed to serve as the main electrical power source. This replacement of the 7 1/2 KW and 10 KW DC generators provides a larger and more functional electrical system.
2. Scientists' and crew's quarters were completely air conditioned.
3. A new RADAR unit and higher antenna tower were installed.
4. An additional "A" frame was located on the port side.
5. The fore deck was equipped with two mooring bits and an enlarged mooring chock.
6. Anti-rolling chocks (bilge keels) were attached to the port and starboard sides of the hull.



7. Whole and fractional HP motors were installed to accommodate the new AC power source.

The M/V GREEN SEAS is a commercial fishing vessel, and was especially chartered for investigations of the shrimp population of Florida Bay. The vessel has a displacement of 31 tons, gross, a length of 47 feet, a beam of 16.4 feet, and a draft of 6 feet.

### Sampling Procedure

The water samples at all stations were collected with Knudsen-Nielsen reversing bottles, attached to 3/16-inch galvanized plough-steel wire. All metal surfaces with which the sample might have come in contact inside the bottles were coated with "Araldite" resin, except for the insides of the bottle lids, which were covered with a special synthetic rubber.

Each bottle carried three holders for reversing thermometers, and it was the general practice to fit two protected thermometers at every depth sampled. In addition, an unprotected thermometer was fitted at most depths below 150 meters for the determination of sampling depth.

The thermometers were read to the nearest  $0.01^{\circ}\text{C}$ , and the temperature observations are considered to be accurate to  $\pm 0.02^{\circ}\text{C}$ .

The angle of the wire was measured between the meter block and the water surface, and angles were also obtained at various depths by means of Niskin wire-angle indicators.

On all cruises temperature was also measured by bathythermograph. As a rule, the 900-foot instrument was used, wherever the water was deep enough.

Soundings were obtained by fathometer, and the values recorded were corrected for the speed of sound.

The work at sea aboard the GERDA was carried out under the general supervision of Mr. Murice Rinkel, and in the GREEN SEAS, under that of Dr. A. C. Jones.

### Analytical Methods

1. Salinity:  $S^{\circ}/\text{oo}$ . The water samples were stored in screw-neck glass bottles, closed with plastic caps containing cone-shaped polyethylene liners intended to form an airtight seal.

After the sample bottles were filled, the caps were screwed down firmly. It has been found that the seal is airtight if the caps are screwed down very hard. In these circumstances the conical liners can be used once only, and the cap may be broken. Accordingly,

a search is being made to find sample bottles with more practical and certain means of closure.

Salinity was determined by means of a UW-PNL conductivity salinometer (see R. G. Paquette, "A modification of the Wenner-Smith-Soule salinity bridge for the determination of salinity in sea water." Univ. Washington, Dept. Oceanogr. Tech. Rep. No. 61, Ref. No. 58-14. Unpublished manuscript, 1958) and reported to the nearest  $0.001^{\circ}/\text{oo}$ . Special series of observations were made to establish the reproducibility of the salinometer measurements. The results of these experiments, which were carried out under the supervision of Mr. Eugene D. Traganza, were given in U. of M. Report 62-4, pp. 3-6.

2. Oxygen:  $\text{O}_2\text{ml/L}$ . The samples were run from the water bottles into amber glass bottles, of about 130 ml capacity, provided with glass stoppers. One ml of a manganese sulfate solution and the same amount of potassium hydroxide - potassium iodide solution were added, the stopper inserted, and the sample shaken vigorously. Especial care was taken to see that when the stopper was inserted in the bottle, no air bubbles were trapped beneath it. For storage, the sample bottle was placed inside a polystyrene jar. The jar was then filled with water drawn from the same Knudsen-Nielsen bottle as the sample.

For the dual purpose of providing a spring and also preventing breakage, a piece of soft rubber was placed under the sample bottle, so that when a plastic cap was screwed on to the outer jar, the sample bottle was held firmly in place.

Tests showed that with samples stored as described above, no significant change in oxygen content occurred.

Oxygen content was determined by Winkler's method. Immediately after the addition of 1 ml of sulphuric acid, two subsamples of 50 ml were taken from the main sample and titrated with sodium thiosulphate solution. The results, reported in milliliters per liter, are considered to have an accuracy of  $\pm 0.05 \text{ ml/L}$ .

The procedure described above has the advantage that the samples may be held when bad weather or shortage of time precludes titration on board. On the cruises with which the present report is concerned, some samples were titrated on board and some ashore. A comparison between pairs of samples, one of which was titrated on board soon after collection and the other titrated ashore, after storage, showed no significant changes in oxygen content.

3. Inorganic Phosphate Phosphorus:  $\text{PO}_4\text{-P } \mu\text{g-at/L}$ . Phosphate phosphorus was determined photometrically by the method of Greenfield and Kalber (1954), as modified by Murphy and Riley (1958) (see U. of M. Report 61-1, pages 3-5). The measurements are considered to have an accuracy of about  $\pm 10$  per cent (see U. of M. Report 61-3, page 3). The values recorded in the present report have not been corrected for

salt error (i.e., a reduction of 4.1 per cent; see J. Murphy and J. P. Riley, J. Mar. Biol. Assoc. U. K., 37 (12), 1958).

4. Total Phosphate Phosphorus: T-P  $\mu\text{g-at/L}$ . Total phosphate phosphorus was determined by perchloric acid digestion (see Hansen and Robinson, Tech. Rep. No. 10, Univ. of Wash., 1952) modified to suit ascorbic acid molybdate colorimetry method as used in inorganic phosphate phosphorus determinations. Preliminary tests of the method indicate an overall accuracy of about  $\pm 10$  per cent. Samples for testing were taken from both inshore and offshore stations.

#### Data Processing

All reversing thermometer readings were corrected by means of an electronic digital computer, and in the same operation sampling depths were computed from the readings of the protected and unprotected thermometers according to a program designed by Donald T. Eger (see U. of M. Report 62-3, "A program for automatic temperature and depth calculations on the IBM 650 computer"). The depths so computed were checked by the L-Z method (H. O. Pub. No. 614, "Processing Oceanographic Data"), which was also the means by which the sampling depths were determined, by interpolation, for those levels at which no unprotected thermometer was used.

Sigma-t ( $\sigma_t$ ) and the anomaly of specific volume were computed by electronic digital computer, by means of the equations stated on page 14 of H. O. Pub. No. 614.

The percentage saturation of oxygen was computed by means of Equation 1 given by G. A. Truesdale and A. L. H. Gameson ("The solubility of oxygen in saline water." J. Cons. Perm. Internat. Explor. Mer, 22 (2): 163-166. Copenhagen, 1957).

In addition, the speed of sound at different levels was also computed by means of the equations given by Wayne D. Wilson ("Speed of sound in sea water as a function of temperature, pressure, and salinity." J. Acoust. Soc. America, 32 (6): 641-644; and 32 (10): 1357. Lancaster, Pennsylvania, 1960). These data are not published, but are available on request.

The bathythermograph (BT) data were processed as follows: the slide and appropriate grid, held together in a carrier, were inserted in a projector, and the image projected on to a 5-inch by 8-inch card, on which the grid (magnified) had been printed, and on which also the sea surface temperature at 0 meters had been marked. The position of the card having been adjusted so that the projected trace coincided at 0 meters with the surface temperature marked on the card, the projected trace was drawn on the card.

In most cases, the trace appeared as a fairly heavy line of irregular width, and sometimes as a double line. The usual practice in copying was to keep to the center of the line when single, or to the right trace when the line was double.

For BT observations made at hydrographic stations, the surface temperature used was that obtained by reversing thermometer at 1 meter depth at the particular station. When the BT observation was not made at a hydrographic station, the surface water temperature was measured either with a thermometer contained in a special sampling bucket, or with a thermometer dipped into a sample of sea water drawn in an ordinary bucket. In the latter case, the BT trace was aligned to the printed grid according to the average difference between the surface temperatures measured by thermometer and the unadjusted trace readings at 0 meters.

The cards published in the present report appear on a reduced scale. The slides were sent, together with the proper grid, to the U. S. Navy Hydrographic Office, the cards being retained by the Institute.

The BT processing was carried out by Mr. D. Shaffer.

All data (including BT temperatures at standard depths) were recorded on punched cards, for which the coding system drawn up by the International Council for the Exploration of the Sea, Copenhagen, was employed.

All electronic computer operations were under the direction of Mr. Donald T. Eger. The general supervision of the data processing was in the hands of Mr. Saul Broida.

### Personnel

Participants in one or more of the various activities connected with the collection of data at sea, the processing ashore, and the preparation of the report are listed below:

Alexander, J. E.	Hyman, E. E.	Rejda, D.
Anderson, M.	Jones, A. C.	Rinkel, M. O.
Broida, S.	Jones, A. E.	Robinson, R.
Burge, B. L.	Koczy, F. F.	Schmitz, W.
Burke, C.	Lumby, J. R.	Shaffer, D.
Colli, A.	Marra, D.	Smith, S. W.
Dickinson, W. H.	Marra, R.	Steele, J.
(Capt., GERDA)	McCabe, P.	Stimson, J. H. G.
Dunlop, D. M.	Mendez, A.	Swanson, O.
Eger, D. T.	Niskin, S.	Traganza, E. D.
Ewald, J.	Peters, R.	Tweedy, J.
Heuer, D.		

## II. OCEANOGRAPHIC STATION DATA

Data, listed by stations, are grouped by cruises. A track chart precedes the data for each cruise.

Explanation of column headings:

### Upper Row

Ship: The name of the vessel given according to a code (see Section IV. LIST OF CODES USED).

Station: The stations are numbered consecutively through a year for each vessel separately.

Position: Given as latitude and longitude to the nearest minute.

Year, Month, Day: The date which accords with the Greenwich Time, below.

GMT: The time, to the nearest hour (Greenwich Mean Time), at which the station began.

Sounding: The sounding in meters, corrected for speed of sound when necessary.

Wind: Direction, true, estimated relative to ship's head, with the ship stopped, and stated according to WMO Code 23 (see Section IV. LIST OF CODES USED); speed, in knots, measured by anemometer.

Weather: Weather given according to WMO Code 90A (see Section IV. LIST OF CODES USED).

Cloud: Cloud coverage in eighths given according to WMO Code 60 (see Section IV. LIST OF CODES USED).

Sea: The state of the sea surface, given according to WMO Code 75 (see Section IV. LIST OF CODES USED).

BT Slide: The number of the bathythermograph trace reproduced in Section III. The BT slide numbers are consecutive through a year for each vessel separately.

Lower Row:

GMT: The time, to the nearest hour (Greenwich Mean Time), at which the messenger for a particular cast was released.

Depth: The depth in meters of the observations. The letter U preceding a depth indicates that the depth was determined thermometrically (normally with one unprotected and two protected thermometers).

Temp: Temperature, reported to the nearest 0.01° C when obtained by reversing thermometer; to the nearest 0.1° C when obtained otherwise (See Sampling Procedure in Section I. INTRODUCTION).

Salinity: Salinity, in parts per thousand, reported to 0.001°/oo.

$\sigma_t$ : An expression for the density of sea water of a given salinity and temperature at surface pressure.  $\sigma_t = 1000 (\rho_{s,t,o} - 1)$  where  $\rho$  is density.

$\Delta\alpha \cdot 10^6$ : The anomaly of specific volume in situ, stated as cubic centimeters per gram, multiplied by  $10^6$ .

$O_2$ : Content of dissolved oxygen in milliliters per liter of sea water, and the percentage saturation.

$PO_4-P$ : Content of inorganic phosphate phosphorus in microgram-atoms of phosphorus per liter of sea water.

T-P: Total phosphate phosphorus in microgram-atoms of phosphorus per liter of sea water.

---

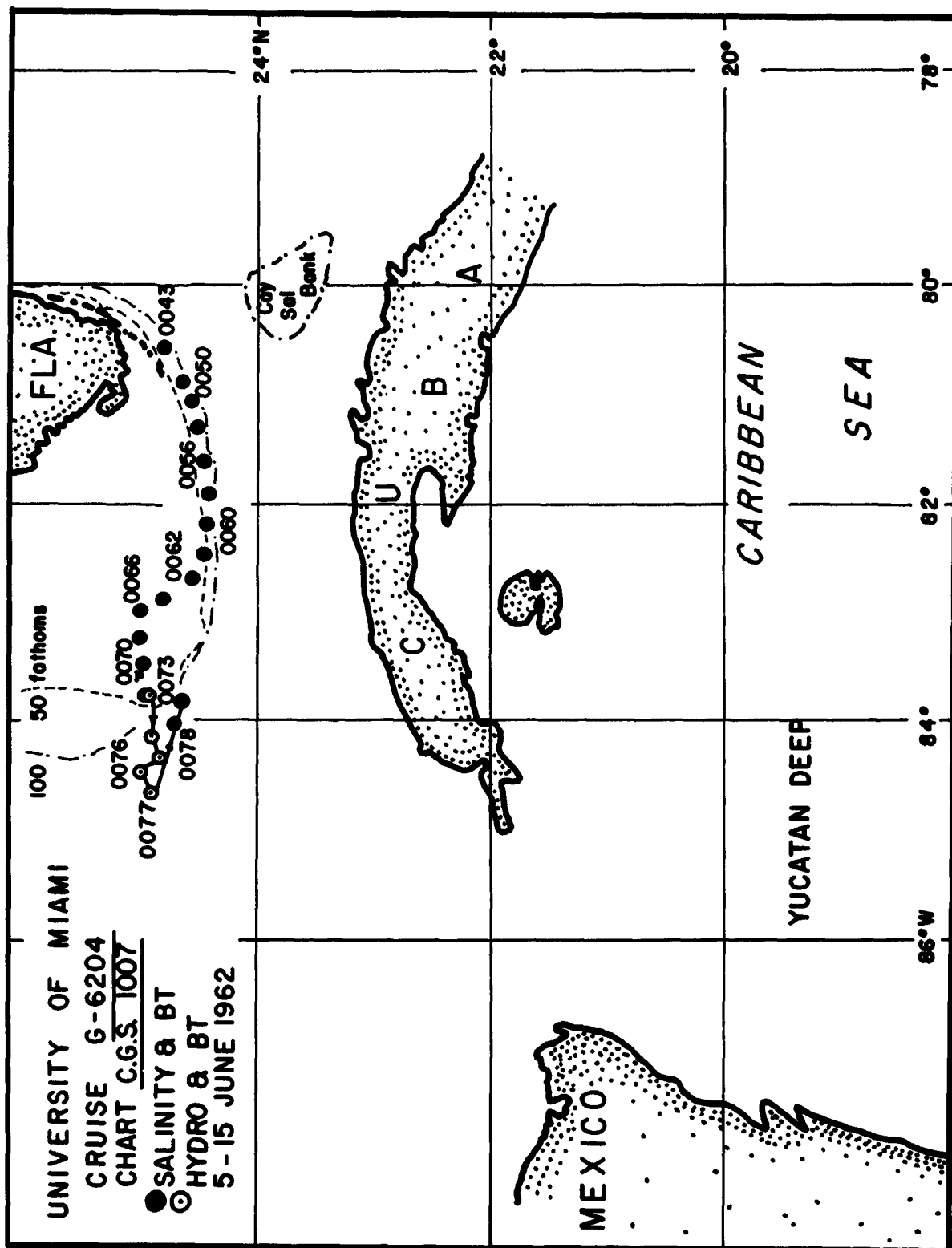
The letter Q after a value signifies that the value is dubious or appears to be inconsistent, but is not necessarily wrong. The general principle followed is that aberrant data are not discarded unless some fault is known to have been present which laid the data open to doubt. For instance, a cracked sample bottle would justify rejection of data, whether or not the values appeared to be reasonable.

CRUISE G 6204

April 20-27

At stations 0043-0072 inclusive, and at stations 0078 and 0079, observations were made at surface, bottom, and occasionally at, or near, the thermocline. The surface samples for temperature and salinity were taken with a bucket. Mid-water and bottom samples were taken with a Knudsen-Nielsen bottle attached to the bathythermograph wire 3 or 4 feet above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces. (The bathythermographs for mid-water samples were taken about five minutes after the bottom samples were obtained, and the traces are not published in this report.)

Five oceanographic and productivity stations were occupied in the eastern Gulf of Mexico. Light measurements were made at selected positions.





CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wet	Cld	Sea	BT Slide
01	0043	24 48N 080 33W	1962	04	21	02	0120						0179

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
02	0000	24.8	36.30	24.405					
02	0058	21.2	36.31	25.454					
02	0115	12.0	35.50	26.995					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wet	Cld	Sea	BT Slide
01	0044	24 45N 080 39W	1962	04	21	03	0114	12	04	1	6	1	0180

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
03	0000	24.2	36.34	24.616					
03	0057	23.1	36.40	24.985					
03	0107	12.0	35.44	26.949					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wet	Cld	Sea	BT Slide
01	0045	24 42N 080 46W	1962	04	21	05	0103	13	08				0181

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
05	0000	25.1	36.27	24.290					
05	0083	21.2	36.44	25.553					
05	0098	12.6	36.45	27.614					

CRUISE G 6204

Ship	Sta. No.	Position ° ' "	Yr. Mo. Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	Sg	BT Slide
------	----------	-------------------	-------------	-----	--------	----------------	---	----	----	----------

01 0046 24 40N 080 54W 1962 04 21 06 0071 13 06 1 6 1 0182

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

06 0000 24.2 36.45 24.699  
06 0045 23.6 36.43 24.862  
06 0070 15.0 35.98 26.744

Ship	Sta. No.	Position ° ' "	Yr. Mo. Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	Sg	BT Slide
------	----------	-------------------	-------------	-----	--------	----------------	---	----	----	----------

01 0047 24 36N 080 57W 1962 04 21 07 0117 17 08 1 5 1 0183

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

07 0000 25.1 36.31 24.321  
07 0118 12.0 35.44 26.949

Ship	Sta. No.	Position ° ' "	Yr. Mo. Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	Sg	BT Slide
------	----------	-------------------	-------------	-----	--------	----------------	---	----	----	----------

01 0048 24 35N 081 02W 1962 04 21 08 0156 1 0184

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

08 0000 24.8 36.28 24.389  
08 0147 12.1 36.09 27.434

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wd	Cl.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	----	-----	---	----------

01 0049 24 33N 081 10W 1962 04 21 10 0182 15 16 2 1 2 0185

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

10 0000 24.7 36.30 24.435  
10 0103 18.8 36.43 26.182  
10 0167 12.0 35.50 26.995

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wd	Cl.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	----	-----	---	----------

01 0050 24 30N 081 17W 1962 04 21 11 0191 04 15 2 0186

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

11 0000 24.7 36.35 24.473  
11 0049 22.5 36.41 25.166  
11 0159 12.5 35.50 26.898

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wd	Cl.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	----	-----	---	----------

01 0051 24 31N 081 20W 1962 04 21 13 0109 03 18 2 6 2 0187

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

13 0000 24.7 36.31 24.442  
13 0049 22.5 36.36 25.128  
13 0097 12.3 35.73 27.115

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0052 24 30N 081 26W 1962 04 21 14 0083 2 0188

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

14 0000 24.3 36.31 24.563  
14 0074 19.1 36.27 25.983

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0053 24 28N 081 34W 1962 04 21 15 04 19 1 7 2 0189

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

15 0000 24.3 36.31 24.563  
15 0059 21.1 36.28 25.459  
15 0107 11.6 35.47 27.048

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	---	----------

01 0054 24 27N 081 41W 1962 04 21 16 3 0190

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

16 0000 24.1 36.31 24.623  
16 0055 21.5 36.35 25.402  
16 0092 12.4 35.94 27.259

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

01 0055 24 27N 081 47W 1962 04 21 17 0093 06 09 1 7 3

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

17 0000 24.1 36.32 24.630

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

01 0056 24 25N 081 54W 1962 04 21 18 0108 2 8 3 0191

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

18 0000 24.3 36.32 24.571

18 0058 21.0 36.35 25.540

18 0090 17.0 36.27 26.506

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

01 0057 24 23N 082 00W 1962 04 21 20 0156 06 20 2 7 3 0192

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

20 0000 24.4 36.33 24.548

20 0072 20.1 36.30 25.744

20 0143 13.1 35.68 26.917

CRUISE G 6204

Ship	Sta. No.	Position ° ' ° '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	---------------------	-----	-----	-----	-----	--------	----------------	------	------	-----	----------

01 0058 24 25N 082 10W 1962 04 21 21 0108 11 18 2 7 3 0193

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

21 0000 24.0 36.32 24.660  
21 0059 21.3 36.35 25.457  
21 0100 15.1

Ship	Sta. No.	Position ° ' ° '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	---------------------	-----	-----	-----	-----	--------	----------------	------	------	-----	----------

01 0059 24 23N 082 19W 1962 04 21 22 0079 11 19 2 7 3 0194

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

22 0000 23.9 36.34 24.705  
22 0079 19.0 36.31 25.040

Ship	Sta. No.	Position ° ' ° '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	---------------------	-----	-----	-----	-----	--------	----------------	------	------	-----	----------

01 0060 24 24N 082 26W 1962 04 21 23 0026 08 18 3 0195

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

23 0000 24.1 36.38 24.576  
23 0022 24.1 36.36 24.661

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wcd	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0061 24 29N 082 33W 1962 04 22 00 0019 11 19 1 7 2 0196

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

00 0000 23.4 36.50  
00 0017 23.6 36.49

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wcd	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0062 24 35N 082 41W 1962 04 22 01 0022 09 18 2 0197

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

01 0000 23.7 36.52  
01 0023 23.7 36.50

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wcd	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0063 24 43N 082 44W 1962 04 22 02 07 20 6 8 2 0198

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

02 0000 23.1 36.58  
02 0029 23.1 36.60

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	-----	-----	----------

01 0064 24 50N 082 49W 1962 04 22 04 0041 07 18 0199

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	-----------------------	---------------------------------	------------------

04 0000 23.6 36.57 24.968  
04 0041 23.7 36.55 24.923

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	-----	-----	----------

01 0065 24 57N 082 53W 1962 04 22 05 06 22 1 7 4 0200

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	-----------------------	---------------------------------	------------------

05 0000 22.6 36.49 25.198  
05 0047 23.0 36.50 25.090

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	-----	-----	----------

01 0066 25 00N 082 55W 1962 04 22 05 0050 06 21 1 7 4 0201

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	-----------------------	---------------------------------	------------------

05 0000 22.7 36.53 25.199  
05 0050 22.6 36.43 25.152



CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sw	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0067 25 00N 083 04W 1962 04 22 06 0054 07 20 1 6 4 0202

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

06 0000 22.5 36.52 25.249

06 0054 21.1 36.33 25.497

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sw	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0068 25 00N 083 12W 1962 04 22 07 0059 06 18 1 6 4 0203

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

07 0000 22.5 36.30 25.082

07 0059 20.2 36.32 25.733

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sw	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0069 25 00N 083 21W 1962 04 22 09 0068 14 28 2 7 4 0204

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

09 0000 22.7 36.42 25.116

09 0059 20.9 36.33 25.552

CRUISE G 6204

Ship	Sta. No.	Position ° ' ° '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca	Cld	Sea	BT Slide
------	----------	---------------------	-----	-----	-----	-----	--------	----------------	-----	-----	-----	----------

01 0070 25 00N 083 30W 1962 04 22 10 0079 11 22 0205

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

10 0000 22.4 36.47 25.240  
10 0053 22.5 36.40 25.158

Ship	Sta. No.	Position ° ' ° '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca	Cld	Sea	BT Slide
------	----------	---------------------	-----	-----	-----	-----	--------	----------------	-----	-----	-----	----------

01 0071 25 00N 083 38W 1962 04 22 11 0085 12 18 2 5 5 0206

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

11 0000 22.7 36.43 25.124  
11 0053 22.4 36.44 25.217

Ship	Sta. No.	Position ° ' ° '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca	Cld	Sea	BT Slide
------	----------	---------------------	-----	-----	-----	-----	--------	----------------	-----	-----	-----	----------

01 0072 25 00N 083 47W 1962 04 22 12 0102 23 2 2 6 0207

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

12 0000 22.6 36.43 25.152  
12 0082 20.1 36.33 25.767

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wcd	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0073 24 57N 083 43W 1962 04 23 20 0109 08 19 0 0 4 0209

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

21	0001	23.08	36.40	24.991	02976	5.14	108.9	0.06	0.24
21	0010	23.01	36.42	25.027	02945	5.04	106.7	0.04	0.19
21	0020	22.97	36.42	25.038	02938	5.04	106.6	0.04	0.23
21	0030	22.90	36.42	25.058	02923	5.03	106.3	0.02	0.22
21	0050	22.50	36.38	25.143	02850	5.08	106.6	0.01	0.20
21	0074	20.45	36.26	25.620	02404	5.11	103.5	0.01	0.24

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wcd	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

01 0074 24 57N 084 08W 1962 04 24 03 0145 09 14 0 0 3 0213

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

04	0001	22.99	36.39	25.010	02958	5.07	107.3		0.25
04	0010	22.95	36.36	24.998	02972	5.07	107.2	0.08	0.27
04	0020	22.95	36.35	24.991	02983	5.07	107.2	0.06	0.20
04	0030	22.78	36.36	25.047	02933	5.07	106.9	0.05	0.20
04	0050	22.53	36.36	25.119	02873	5.06	106.2	0.05	0.26
04	0075	20.52	36.36	25.677	02350	4.56	092.5	0.15	0.37
04	0100	19.88	36.45	25.917	02132	3.75	075.3	0.27	0.48
04	0125	18.92	36.43	26.152	01916	3.50	069.0	0.48	0.61

## CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0075 24 52N 084 17W 1962 04 24 12 0568 09 14 1 1 3 0214

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

13	0001	25.09	36.29	24.309	03626	4.86	106.3	0.04	0.21
13	0010	25.06	36.28	24.310	03628	4.86	106.3	0.05	0.22
13	0019	24.38	36.31	24.539	03413	4.89	105.8	0.05	0.19
13	0029	22.90	36.36	25.013	02966			0.02	0.27
13	0048	22.63	36.37	25.098	02892	5.03	105.8	0.01	0.22
13	0071	21.76	36.35	25.329	02681	5.85	121.2	0.11	0.24
13	0095	20.85	36.37	25.596	02436	4.61	094.1	0.08	0.28
13	0118	19.89	36.40	25.876	02177	3.79	076.1	0.37	0.47
13	00141	18.44	36.40	26.251	01827	3.46	067.7	0.45	0.60
13	0188	14.11	35.82	26.815	01298	3.15	056.4	1.00	1.03
13	00234	11.540	35.44	27.036	01091	2.91	049.5	1.16	
13	0281	10.00	35.19	27.119	01016	2.97	045.5	1.64	1.61
13	00374	09.32	35.09	27.156	00996	2.85	045.5	1.60	
13	00522	07.74	34.94	27.280	00888	2.96	045.5	1.85	1.76

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0076 25 00N 084 26W 1962 04 24 21 1097 09 13 0 0 3 0217

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

22	0001	25.76	36.30	24.109	03815	4.82	106.6	0.05	0.21
22	0010	25.75	36.29	24.121	03809	4.83	106.7	0.06	0.20
22	0020	25.61	36.30	24.156	03779	4.83	106.6	0.05	0.21
22	0029	25.55	36.29	24.167	03772	4.81	106.0	0.04	0.23
22	0049	23.18	36.32	24.901	03080	5.03	106.7	0.04	0.28
22	0073	21.51	36.35	25.399	02615	5.12	105.6	0.03	0.31
22	0098	21.02	36.37	25.549	02481	5.05	103.3	0.00	0.32
22	0122	20.53	36.30	25.629	02414	4.98	101.0	0.05	
22	0147	18.92	36.28	26.037	02033	3.99	078.6	0.36	0.54
22	00196	16.59	36.18	26.534	01573	3.31	062.4	0.72	
22	0245	14.50	35.89	26.785	01344	3.01	054.4	1.08	1.12
22	00294	13.08	35.66	26.906	01237	2.97	052.0	1.09	
22	00390	10.40	35.29	27.128	01035	2.80	046.2	1.52	1.58
22	0484	08.27	35.01	27.261	00910	2.88	045.2	1.95	
22	00578Q	07.050	34.91	27.362	00817	3.10	047.2	1.98	2.01
22	00764	05.67	34.91	27.544	00652	3.55	052.3	2.05	
22	00998Q	05.040	34.91	27.621	00597	4.33	062.8	1.75	2.10

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0077 24 53N 084 39W 1962 04 25 03 3329 15 09 0 0 3 0218

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

03	0001	26.01	36.27	24.009	03912	4.73	105.0	0.05	
03	0009	26.00	36.27	24.012	03912	4.78	106.1	0.05	
03	0018	26.01	36.27	24.009	03919	4.79	106.3	0.07	
03	0028	25.99	36.27	24.015	03917	4.74	105.2	0.04	
03	0046	25.98	36.27	24.018	03921	4.77	105.8	0.05	
03	0067	25.94	36.32	24.068	03882	4.78	106.0	0.05	
03	0088	24.99	36.51	24.505	03474	4.29	093.8	0.05	
03	0108	23.42	36.65	25.081	02933	3.91	083.4	0.20	
03	0128	21.81	36.67	25.558	02485			0.31	
03	U0168	18.98	36.43	26.136	01946	3.54	069.9	0.51	
03	0208	16.95	36.26	26.510	01601	3.17	060.2	0.75	
03	0248		36.00			3.00		0.82	
03	U0328	13.06	35.66	26.910	01243	3.16	055.4	1.27	
03	0409	11.17	35.36	27.043	01125	2.93	049.2	1.56	
03	U0489	09.79	35.20	27.163	01018	2.81	045.7	1.76	
05	U0648	07.26	34.93	27.348	00845	2.91	044.6	2.09	
03	0650		34.94			3.03		2.02	
03	U0811	05.76	34.90	27.525	00678	3.64	053.7	1.76	
05	U0952	05.14	34.93	27.625	00590	3.98	057.9	1.86	
05	U1288	04.31	35.00	27.775	00465	4.44	063.3	1.75	
05	16130		34.98			5.11		1.79	
05	U2134	04.24	34.98	27.766	00550	5.19	073.8	1.76	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0078 24 41N 084 00W 1962 04 25 22 0243 10 06 0 0 2 0220

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

22	0000	26.0	36.30	24.035					
22	0042	24.2	36.31	24.593					
22	0220	15.1	36.03	26.761					

CRUISE G 6204

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	------	---	----------

01 0079 24 41N 083 50W 1962 04 25 23 09 11 0 0 2 0221

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

23 0000 25.1 36.33 24.336

23 0037 22.2 36.38 25.228

23 0113 19.8 36.33 25.847

CRUISE G 6207

May 12

This was a training cruise during which an oceanographic station was occupied and an integrated plankton sample was obtained from 200 meters to the surface. The oceanographic station was in the regular Fowey Rock-Cay Cay transect in the study of seasonal and yearly variations in the Florida Straits. No track chart is presented.

CRUISE G 6207

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0080 25 37N 079 57W 1962 05 12 17 0370 04 02 1 1 1 0222

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

17	0001	26.77	36.38	23.852	04061	4.79	107.7	0.03	0.18
17	0009	26.38	36.35	23.953	03968	4.75	106.1	0.00	0.27
17	0017	25.97	36.36	24.089	03842	4.82	107.0	0.01	0.96
17	0025	25.50	36.39	24.258	03684	4.82	106.2	0.00	0.20
17	0042	25.09	36.37	24.369	03585	4.88	106.8	0.01	0.14
17	0061	24.10	36.36	24.661	03314	4.95	106.6	0.01	0.18
17	00080	23.00	36.44	25.045	02956	4.80	101.6	0.06	0.27
17	00117	20.98	36.35	25.545	02492	4.95	101.2	0.05	0.18
17	00158	18.70	36.37	26.162	01918			0.47	0.61
17	00196	14.58	35.84	26.729	01383	3.30	059.7	0.90	1.06
17	00233	11.82	35.50	27.030	01096	3.07	052.3	1.22	1.08



CRUISE G 6208-G 6209

May 16-17; May 21-24

The collection of oceanographic data for seasonal and yearly variations in the northern Straits of Florida was continued. Productivity samples were collected on the eastern side of the Straits. Additional samples were obtained to study particulate matter in the water and trace elements. At the two deepest stations between Settlement Point and Palm Beach, samples were collected for the measurement of alkalinity.

Cruise G-6208 was terminated after one station because of bad wather. This station was repeated on Cruise G-6209. Comparison of the two stations may indicate changes in the water mass resulting from storm activity.

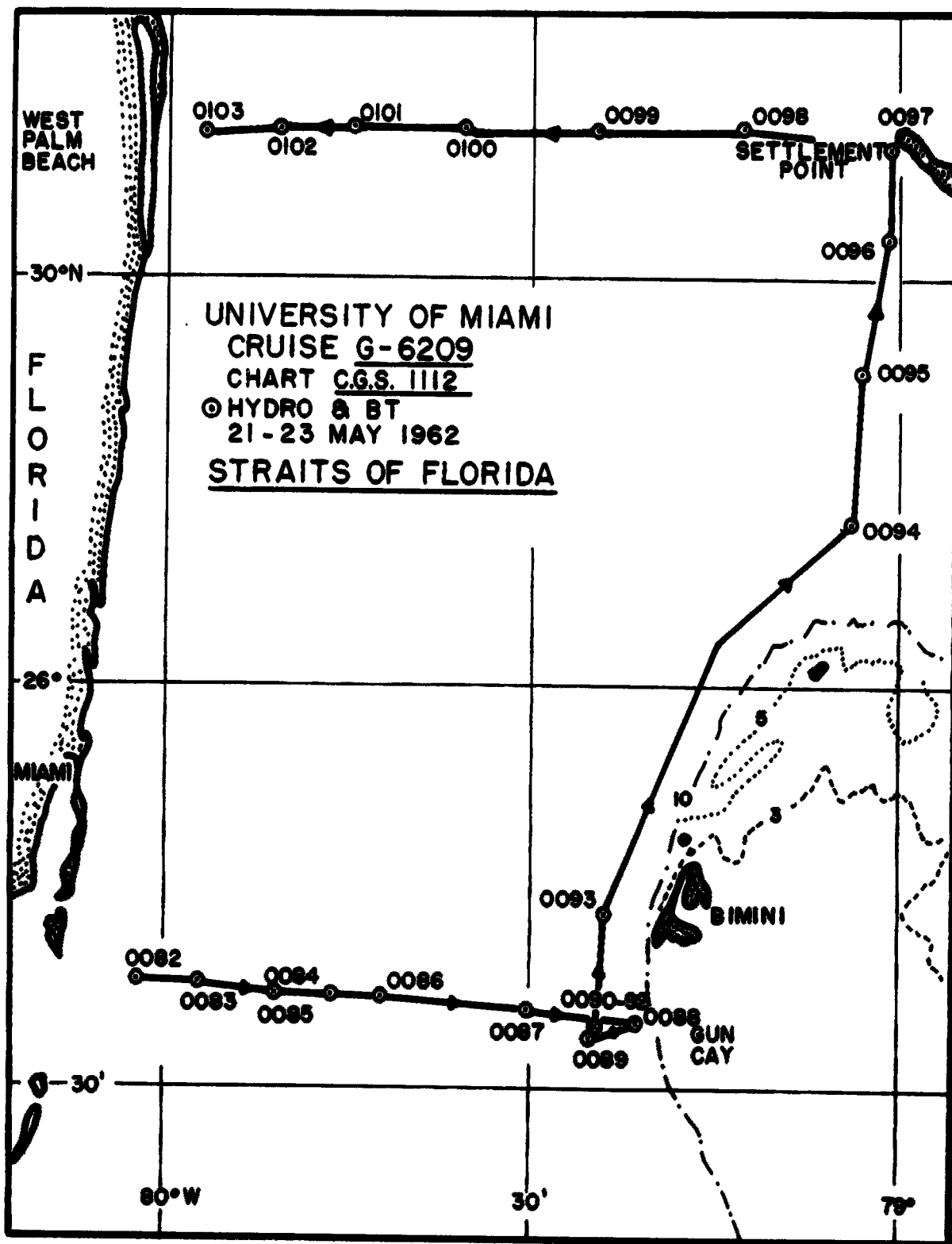
# CRUISE G 6208

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wad	Cl.	%	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	---	----------

01 0081 26 41N 079 57W 1962 05 16 22 0193 02 23 2 8 3 0223

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

23	0001	26.07	36.35	24.050	03872			0.02	0.22
23	0010	25.85	36.36	24.127	03803			0.01	0.20
23	0020	25.77	36.38	24.167	03769			0.01	0.19
23	0030	25.77	36.38	24.167	03773			0.00	0.19
23	0050	24.60	36.46	24.586	03381			0.00	0.22
23	0075	23.15	36.43	24.993	03003			0.01	0.20
23	0100	21.42	36.35	25.424	02601			0.05	0.25
23	0140	17.22	36.16	26.369	01713			0.66	0.80



CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wes	Cl	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	----	---	----------

01 0082 25 38N 080 03W 1962 05 21 20 0235 11 18 2 8 2 0224

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

20	0001	26.51	36.40	23.949	03968	4.79	107.3	0.01	0.27
20	0010	26.01	36.37	24.084	03843	4.78	106.2	0.02	0.23
20	0019	25.87	36.40	24.151	03784	4.77	105.7	0.01	0.23
20	0029	25.57	36.42	24.259	03685	4.82	106.3	0.01	0.38
20	0048	25.38	36.44	24.333	03622	4.81	105.8	0.02	0.26
20	0073	23.27	36.41	24.943	03050	4.82	102.5	0.02	0.25
20	0097	21.34	36.35	25.446	02579	4.81	099.0	0.11	0.29
20	0145	15.07	35.91	26.675	01420	3.47	063.4	0.87	1.00

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wes	Cl	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	----	---	----------

01 0083 25 38N 079 57W 1962 05 21 22 0356 14 14 1 7 2 0225

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

22	0001	26.95	36.37	23.786	04124	4.75	107.1	0.03	
22	0008	26.43	36.37	23.952	03969	4.73	105.8	0.06	0.23
22	0016	26.41	36.38	23.966	03959	4.75	106.2	0.02	0.20
22	0023	26.29	36.38	24.004	03925	4.72	105.3	0.03	0.25
22	0038	25.81	36.35	24.132	03810	4.75	105.2	0.02	0.24
22	0061	24.43	36.45	24.630	03344	4.92	106.6	0.04	
22	0068	23.63	36.42	24.645	03141	4.99	106.7	0.04	0.27
22	0101	22.21	36.45	25.279	02741	4.92	102.8	0.05	0.23
22	U0133	19.53	36.32	25.910	02150			0.24	0.40
22	U0166	16.27	36.14	26.579	01520			0.73	0.90
22	U0235	10.73	35.33	27.100	01027	3.17	052.7	1.49	1.60

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0084 25 37N 079 51W 1962 05 21 24 0471 19 09 1 7 2 0226

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

24	0001	26.76	36.31	23.802	04109	4.75	106.7	0.02	0.22
24	0012	26.47	36.29	23.879	04040	4.73	105.8	0.02	
24	0021	26.46	36.29	23.882	04041	4.75	106.2	0.02	
24	0032	26.43	36.26	23.869	04058	4.72	105.5	0.03	0.25
24	0051	26.37	36.29	23.911	04026	4.72	105.4	0.02	0.22
24	0077	25.62	36.36	24.198	03762	4.69	103.5	0.03	0.25
24	0096	24.06	36.49	24.771	03224	4.23	091.1	0.10	0.30
24	0138	20.62	36.34	25.635	02414	4.84	098.3	0.05	0.24
24	U0178	17.53	36.32	26.416	01682	3.49	067.1	0.57	0.58
24	U0218	14.61	35.89	26.761	01359	3.29	059.6	1.00	1.04
24	U0272	12.28	35.52	26.957	01179	3.03	052.2	1.29	1.34
24	U0335	10.28	35.26	27.125	01024	2.89	047.5	1.54	1.62

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0085 25 37N 079 46W 1962 05 22 01 0670 27 16 2 8 2 0227

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

02	0001	26.62	36.26	23.809	04102	5.13	115.0	0.05	0.28
02	0007	26.57	36.27	23.832	04082	4.71	105.5	0.03	
02	0019	26.52	36.27	23.848	04072	4.71	105.4	0.02	
02	0027	26.50	36.27	23.854	04070	4.71	105.4	0.05	
02	0046	26.44	36.27	23.873	04059	4.70	105.0	0.04	0.21
02	0065	26.46	36.25	23.852	04088	4.17	093.2	0.05	0.30
02	0085	25.85	36.26	24.051	03906	4.71	104.3	0.05	0.24
02	0115	23.82	36.48	24.835	03170	4.24	091.0	0.17	0.28
02	U0137	22.27	36.58	25.360	02678	4.16	087.1	0.19	0.33
02	U0170	18.75	36.45	26.210	01876			0.54	0.62
02	U0200	17.04	36.27	26.496	01612	3.41	064.9	0.72	0.77
02	U0322	11.78	35.44	26.991	01157	2.88	049.0	1.41	1.41
02	U0340	11.02	35.37	27.078	01074	2.92	048.9	1.51	1.51
02	U0400	09.56	35.17	27.179	00982	2.88	046.6	1.73	1.630
02	U0543	07.68	34.97	27.318	00860	2.96	045.8	1.95	1.96

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W <sub>10</sub>	U <sub>10</sub>	S <sub>10</sub>	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----------------	-----------------	-----------------	----------

01 0086 25 37N 079 42W 1962 05 22 03 0769 24 06 1 4 2 0228

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

04	0001	26.45	36.25	23.855	04058	4.72	105.5	0.06	0.28
04	0012	26.45	36.23	23.840	04077	4.79	107.0	0.05	
04	0021	26.43	36.24	23.854	04068	4.73	105.7	0.03	
04	0034	26.20	36.26	23.942	03989	4.73	105.3	0.02	
04	0055	26.07	36.34	24.043	03902	4.72	104.9	0.05	
04	0084	26.02	36.33	24.051	03906	4.71	104.6	0.04	0.20
04	0106	25.97	36.36	24.089	03878	4.56	101.2	0.04	0.24
04	0151	22.67	36.51	25.193	02843	4.81	101.3	0.07	0.27
04	00190	19.14	36.50	26.149	01943	3.54	070.1	0.49	0.54
04	00230	17.16	36.35	26.529	01591	3.94	075.2	0.53	0.65
04	00274	15.60	36.11	26.710	01428	3.47	064.2	0.81	0.90
04	00354	12.63	35.62	26.965	01195	3.01	052.2	1.27	1.36
04	00431	10.01	35.31	27.211	00962	2.84	046.5	1.74	1.62
04	00516	08.60	35.08	27.264	00916	2.93	046.3	2.08	1.86
04	00673	06.74	34.96	27.444	00751	3.24	049.0	1.96	2.02

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W <sub>10</sub>	U <sub>10</sub>	S <sub>10</sub>	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----------------	-----------------	-----------------	----------

01 0087 25 36N 079 30W 1962 05 22 07 0867 23 09 1 9 2 0229

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

08	0001	26.21	36.31	23.976	03943	4.70	104.7	0.02	
08	0009	26.21	36.30	23.969	03953	4.71	104.9	0.02	
08	0022	26.25	36.28	23.941	03985	5.06	112.8	0.00	
08	0031	26.21	36.26	23.938	03991	4.79	106.7	0.00	
08	0053	26.06	36.32	24.031	03912	4.69	104.2	0.01	
08	0075	26.08	36.30	24.009	03942	4.65	103.3	0.00	
08	0099	26.08	36.34	24.040	03923	4.35	096.7	0.02	0.26
08	0149	24.86	36.61	24.621	03389	3.92	085.6	0.13	
08	00195	21.50	36.80	25.744	02335	4.32	089.4	0.04	0.28
08	00245	18.78	36.56	26.287	01831	3.85	075.8	0.34	0.51
08	00294	17.47	36.39	26.484	01656	4.01	077.0	0.44	0.51
08	00398	14.95	35.98	26.756	01420	3.80	069.3	0.72	0.80
08	00522	12.33	35.53	26.955	01246	3.10	053.4	1.26	1.34
08	00615	08.90	35.09	27.224	00976	2.93	046.7	1.71	1.79
08	00723	07.36	34.96	27.357	00850	3.08	047.3	1.91	1.82
08	00831	06.07	34.88	27.470	00738	3.55	052.8	1.60	1.49

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0088 25 35N 079 21W 1962 05 22 10 0155 25 09 1 8 2 0230

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

10	0001	26.23	36.27	23.940	03977	4.71	104.9	0.02	0.23
10	0010	26.24	36.25	23.921	03999	4.71	104.9	0.02	0.24
10	0019	26.24	36.26	23.929	03995	4.72	105.1	0.02	0.20
10	0029	26.22	36.26	23.935	03993	4.79	106.7	0.02	0.26
10	0048	25.97	36.36	24.089	03854	4.72	104.8	0.07	0.26
10	0076	25.26	36.55	24.453	03519	4.57	100.4	0.06	0.27
10	0100	24.75	36.65	24.684	03306	4.47	097.5	0.10	0.29
10	0148	24.12	36.80	24.988	03039	4.35	094.0	0.11	0.27

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0089 25 34N 079 25W 1962 05 22 13 0812

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

14	00178	22.75							
14	00229	22.55							
14	00273	18.81							
14	00363	17.60							
14	00457	13.87							
14	00557	12.20							
14	00653	09.85							

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wet	Clid.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-------	---	----------

01 0090 25 35N 079 24W 1962 05 22 15 0812

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

15 00174 22.56  
15 00273 18.81  
15 00363 17.60  
15 00457 13.87  
15 00569 10.79

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wet	Clid.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-------	---	----------

01 0091 25 35N 079 24W 1962 05 22 17 0812

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

18 0001 26.49  
18 0010 26.21  
18 0019 26.24  
18 0029 26.25  
18 0053 26.16  
18 0078 26.14  
18 0101 25.74  
18 0156 23.35  
18 00208 20.78  
18 00257 19.20  
18 00312 17.93  
18 00417 15.02  
18 00522 12.64  
18 00631 09.69  
18 00736 07.83  
18 007850 06.72



**CRUISE G 6209**

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wav.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0092 25 35N 079 24W 1962 05 22 18 0813 36 08 1 4 2 0231

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P μg-at/L	T-P μg-at/L
-----	------------	-------------	-----------	------------	---------------------------	------	---------------------	-------------------------------	----------------

19	0001	26.47	36.35	23.924	03992	4.70	105.1	0.04	0.29
19	0009	26.26	36.29	23.945	03975	4.70	104.8	0.02	0.15
19	0019	26.24	36.30	23.959	03966	4.73	105.4	0.04	0.22
19	0028	26.22	36.33	23.988	03943	4.67	104.0	0.02	0.23
19	0051	26.12	36.32	24.012	03929	4.73	105.2	0.02	0.22
19	0075	25.74	36.33	24.138	03819	4.51	099.7	0.03	0.19
19	0098	25.34	36.36	24.285	03688	4.13	090.7	0.07	0.23
19	0151	23.65	36.81	25.135	02899	3.96	084.9	0.14	0.23
19	U0205	21.02	36.72	25.815	02269	3.67	075.3	0.26	0.39
19	U0255	19.40	36.62	26.173	01945	3.75	074.7	0.34	0.42
19	U0309	17.80	36.39	26.403	01739	3.78	073.0	0.45	0.55
19	U0413	15.56	36.09	26.704	01477	3.90	072.1	0.62	0.75
19	U0518	12.65	35.66	26.992	01213	3.29	057.1	1.15	1.21
19	U0619	09.99	35.24	27.160	01051	2.86	046.7	1.60	1.60
19	U0708Q	08.15	35.04	27.303	00910	2.96	046.3	1.85	
19	U0759Q	07.25				3.07		1.72	1.63

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wva.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0093 25 43N 079 24W 1962 05 22 21 0646 21 10 4 9 2 0232

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L O <sub>2</sub>	%	PO <sub>4</sub> -P μg-at/L	T-P μg-at/L
-----	------------	-------------	-----------	------------	---------------------------	---------------------	---	-------------------------------	----------------

22	0001	26.58	36.26	23.837	04076	4.72	105.7	0.01	0.23
22	0009	26.33	36.27	23.908	04011	4.70	104.9	0.03	0.23
22	0018	26.33	36.29	23.923	04000	4.70	104.9	0.00	0.27
22	0027	26.23	36.30	23.962	03967	4.72	105.2	0.00	0.07Q
22	0050	26.04	36.28	24.007	03934	4.68	103.9	0.05	0.18
22	0070	26.08	36.31	24.017	03932	4.68	104.0	0.05	0.21
22	0090	25.86	36.31	24.086	03875	4.38	097.0	0.03	0.27
22	0141	24.00	36.72	24.963	03059	4.12	088.8	0.09	0.41
22	U0192	21.47	36.71	25.684	02390	3.65	075.4	0.25	0.38
22	U0239	19.53	36.61	26.131	01979	3.77	075.3	0.30	0.48
22	U0292	18.03	36.45	26.392	01745	3.73	072.4	0.54	1.05
22	U0393	15.61	36.10	26.700	01475	3.86	071.4	0.77	0.93
22	U0495	13.26	35.72	26.915	01284	3.41	060.0	1.09	1.17
22	U0601	10.51	35.29	27.108	01102	2.92	048.3	1.59	1.63
22	U0650	09.13	35.08	27.179	01028	2.90	046.4	1.79	1.92

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0094 26 12N 079 04W 1962 05 23 03 0343 19 18 1 2 2 0233

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

03	0001	26.38	36.29	23.907	04008	4.71	105.2	0.03	0.24
03	0010	26.38	36.28	23.900	04019	4.74	105.8	0.07	0.22
03	0020	26.38	36.26	23.885	04038	4.71	105.2	0.07	
03	0030	26.38	36.27	23.892	04035	4.72	105.4	0.05	0.25
03	0050	25.94	36.40	24.129	03817	4.75	105.4	0.04	0.31
03	0079	25.54	36.54	24.359	03610	4.74	104.6	0.01	0.23
03	0104	25.40	36.56	24.417	03565	4.65	102.4	0.01	0.26
03	0157	23.44	36.73	25.136	02900	4.87	104.0	0.05	0.27
03	00207	20.22	36.71	26.025	02070	4.30	087.0	0.11	0.27
03	00263	18.97	36.64	26.299	01826	4.35	086.0	0.16	0.29
03	00313	18.28	36.56	26.414	01733	4.38	085.5	0.24	0.41

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0095 26 23N 079 03W 1962 05 23 05 0541 23 02 1 7 2 0234

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

06	0001	26.34	36.24	23.882	04032	4.72	105.3	0.13	0.24
06	0010	26.34	36.25	23.890	04029	4.73	105.5	0.07	
06	0020	26.30	36.25	23.903	04021	4.73	105.5	0.13	
06	0030	26.07	36.36	24.058	03877	4.70	104.5	0.09	0.23
06	0050	25.65	36.44	24.249	03703	4.68	103.4	0.14	0.21
06	0075	25.36	36.51	24.392	03577	4.68	103.0	0.00	0.17
06	0100	25.04	36.61	24.566	03422	4.43	097.0	0.06	0.22
06	0150	23.33	36.74	25.176	02859	4.81	102.6	0.10	0.16
06	00205	22.13	36.69	25.483	02587	4.68	097.8	0.11	0.15
06	00255	20.36	36.61	25.911	02196	4.72	095.6	0.23	0.22
06	00307	19.18	36.54	26.169	01966	4.34	086.1	0.29	0.33
06	00408	17.31	36.36	26.500	01679	4.31	082.5	0.45	
06	00515	12.64	35.63	26.971	01232	3.45	059.9	1.30	1.23

## CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0096 26 33N 079 01W 1962 05 23 07 0667 27 05 1 7 2 0235

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

08	0001	26.30	36.20	23.865	04049	4.68	104.3	0.00	0.18
08	0009	26.29	36.21	23.876	04042			0.03	0.22
08	0018	26.16	36.26	23.954	03971	4.73	105.2	0.03	0.23
08	0028	26.09	36.28	23.991	03939	4.73	105.1	0.03	0.22
08	0046	25.60	36.45	24.272	03679	4.58	101.1	0.04	0.18
08	0068		36.54			4.64		0.04	0.22
08	0089	24.76	36.63	24.666	03321	4.34	094.7	0.06	0.23
08	0134	23.35	36.82	25.231	02801	4.49	095.8	0.05	0.24
08	0173	21.89	36.65	25.521	02538	4.60	095.7	0.07	0.20
08	0213	20.64	36.65	25.866	02224	4.78	097.4	0.06	0.19
08	0254	19.73	36.64	26.101	02013	4.48	089.8	0.10	0.24
08	0335	18.40	36.52	26.353	01799	4.63	090.6	0.19	0.29
08	0422	17.23	36.40	26.550	01635	4.37	083.6	0.35	0.48
08	0508	15.08	36.01	26.750	01459	3.91	071.5	0.73	0.84

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0097 26 40N 079 01W 1962 05 23 09 0266 31 04 0 0 2 0236

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

10	0001	26.37	36.24	23.873	04041	4.68	104.5	0.05	0.26
10	0010	26.37	36.24	23.873	04045	4.68	104.5	0.05	0.26
10	0023	25.86	36.38	24.139	03797	4.73	104.8	0.00	0.20
10	0029	25.68	36.43	24.232	03710	4.70	103.9	0.00	0.24
10	0050	25.11	36.45	24.423	03536	4.78	104.7	0.00	0.22
10	0075	24.03	36.81	25.022	02976	4.34	093.7	0.05	0.25
10	0095	22.88	36.72	25.292	02727	4.71	099.7	0.00	0.20
10	0150	21.77	36.69	25.585	02469	4.67	097.0	0.01	0.20

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0098 26 41N 079 13W 1962 05 23 11 0672 01 05 1 1 2 0237

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

12	0001	26.41	36.23	23.853	04060	4.68	104.5	0.03	0.33
12	0010	26.41	36.26	23.875	04043	4.68	104.5	0.02	
12	0020	26.31	36.25	23.899	04024	4.69	104.6	0.02	
12	0030	26.21	36.25	23.931	03998	4.69	104.4	0.01	
12	0055	26.02	36.27	24.006	03937	4.72	104.8	0.11	0.26
12	0079	25.94	36.37	24.106	03851	4.52	100.3	0.06	0.24
12	0106	24.87	36.57	24.587	03403	3.99	087.1	0.09	0.27
12	0161	23.26	36.81	25.249	02794	4.30	091.6	0.09	0.22
12	U0217	19.88	36.73	26.130	01972	4.29	086.3	0.11	0.27
12	U0267	18.88	36.56	26.261	01863	4.38	086.4	0.19	0.30
12	U0323	17.80	36.45	26.449	01701	4.49	086.8	0.24	0.38
12	U0427	17.31	36.40	26.531	01656	4.49	086.0	0.34	0.47
12	U0538	12.83	35.66	26.956	01253	3.56	062.1	1.12	1.12
12	U0644	09.82	35.30	27.236	00983	3.50	057.0	1.47	1.52

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

01 0099 26 41N 079 25W 1962 05 23 14 0653 03 05 1 1 2 0238

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

15	0001	26.39	36.26	23.882	04033	4.70	104.9	0.01	0.20
15	0010	26.29	36.29	23.936	03985	4.39	097.9	0.00	
15	0020	26.27	36.29	23.942	03983	4.70	104.8		
15	0039	26.22	36.32	23.981	03954	4.67	104.0	0.00	
15	0063	26.12	36.29	23.989	03956	4.68	104.1	0.00	
15	0085	25.84	36.34	24.115	03845	4.62	102.3	0.01	0.20
15	0135	24.66	36.64	24.704	03304	3.97	086.4	0.09	0.25
15	0186	21.28	36.75	25.767	02309	3.63	074.8	0.26	0.42
15	U0237	18.86	36.63	26.320	01797	4.20	082.9	0.18	0.32
15	U0282	17.57	36.46	26.513	01625	4.37	084.1	0.29	0.44
15	U0376	14.97	36.04	26.797	01374	3.78	069.0	0.76	0.87
15	U0475	11.79	35.48	27.020	01168	2.97	050.6	1.38	1.46
15	U0560	09.20	35.09	27.176	01014	2.82	045.2	1.88	1.84
15	U0644Q	08.29	35.03	27.273	00928	3.02	047.4	1.92	1.91

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sw	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0100 26 41N 079 36W 1962 05 23 17 0647 29 03 1 7 2 0239

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

17	0001	27.07	36.26	23.665	04239	4.70	106.1	0.01	0.25
17	0010	26.45	36.27	23.870	04047	4.68	104.6	0.02	
17	0020	26.44	36.27	23.873	04049			0.02	
17	0030	26.25	36.23	23.903	04024	5.25	116.9	0.02	
17	0055	25.92	36.27	24.037	03907	5.30	117.5	0.03	0.22
17	0080	25.65	36.36	24.189	03772	5.46	120.6	0.02	0.19
17	0105	25.18	36.49	24.432	03551	5.47	120.0	0.05	0.21
17	0160	20.99	36.41	25.588	02468	5.38	110.1	0.03	0.22
17	U0215	17.55	36.37	26.449	01663	4.71	090.6	0.50	0.65
17	U0262	15.20	36.06	26.762	01374	3.56	065.3	0.83	1.00
17	U0312	13.52	35.80	26.923	01228	3.33	059.0	1.11	1.23
17	U0404	10.68	35.28	27.070	01094	3.55	058.9	1.53	1.65
17	U0502	07.76	34.97	27.306	00865	3.15	048.8	2.01	1.99
17	U0610	06.78	34.87	27.367	00813	3.38	051.1	1.99	2.08

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sw	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0101 26 41N 079 45W 1962 05 23 19 0436 00 00 1 1 2 0240

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

19	0001	27.77	36.26	23.438	04456	4.68	106.8	0.04	0.37
19	0009	26.63	36.24	23.791	04123	4.78	107.1	0.03	0.28
19	0017	26.62	36.27	23.816	04102	4.70	105.3	0.02	0.46
19	0027	26.55	36.28	23.846	04077	4.68	104.8	0.03	0.31
19	0044	26.43	36.27	23.877	04055	4.69	104.8	0.03	0.28
19	0068	26.12	36.32	24.012	03936	4.64	103.2	0.02	0.28
19	0090	24.45	36.40	24.586	03398	4.42	095.8	0.05	0.28
19	0130	21.26	36.36	25.476	02563	4.93	101.3	0.05	0.31
19	U0168	18.15	36.28	26.232	01854	3.37	065.5	0.56	0.77
19	U0208	15.23	35.98	26.693	01422	3.11	057.1	0.96	1.11
19	U0250	12.27	35.54	26.974	01157	3.50	060.3	1.41	1.47Q
19	U0296	10.08	35.17	27.090	01047	2.89	047.3	1.74	1.75Q

CRUISE G 6209

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0102 26 41N 079 51W 1962 05 23 22 0325 00 00 2 1 2 0242

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

22	0001	28.20	36.51	23.485	04411	4.72	108.6	0.01	0.30
22	0009	26.16	36.40	24.060	03866	4.78	106.4	0.02	0.24
22	0018	26.02	36.42	24.119	03814	4.79	106.4	0.00	0.20
22	0027	26.02	36.43	24.126	03810	4.77	106.0	0.00	0.27
22	0045	25.53	36.45	24.294	03658	4.79	105.6	0.00	0.29
22	0068	24.25	36.46	24.691	03288	4.75	102.6	0.04	0.36Q
22	0085	22.44	36.38	25.160	02848	4.95	103.8	0.06	0.30
22	0113	17.36	36.17	26.342	01729	3.86	073.9	0.62	0.75
22	0147		35.89			3.19		1.00	1.08
22	00190	12.17	35.57	27.017	01101	3.00	051.5	1.34	1.37

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0103 26 41N 079 57W 1962 05 23 24 0213 10 02 1 5 1 0243

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

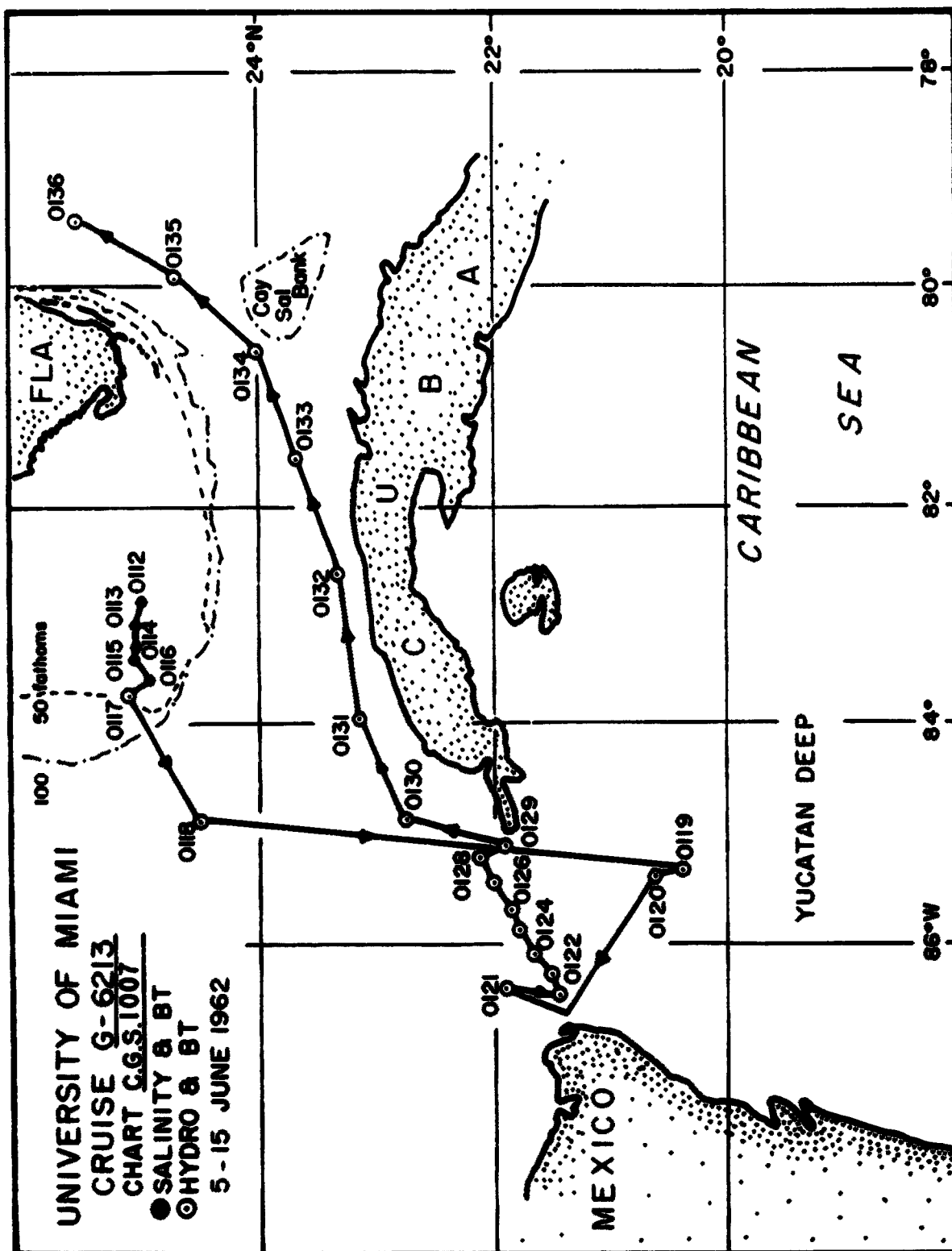
24	0001	27.12	36.40	23.754	04154	4.72	106.7	0.00	0.28
24	0009	26.16	36.43	24.082	03845	4.73	105.4	0.01	0.23
24	0019	26.03	36.39	24.093	03839	4.84	107.6	0.00	0.24
24	0028	25.87	36.43	24.173	03766	4.80	106.4	0.00	0.22
24	0047	24.84	36.43	24.491	03471	4.79	104.5	0.00	0.24
24	0070	22.38	36.41	25.200	02804	4.86	101.8	0.04	0.30
24	0093	17.81	36.16	26.225	01835	3.77	072.8	0.51	0.65
24	0137	13.62	35.76	26.672	01228	3.13	055.5	1.15	1.24

CRUISE G 6213

June 5-15

Five oceanographic and productivity stations were occupied in the eastern Gulf of Mexico. Samples to measure particulate iron were taken at one oceanographic station in the Yucatan Basin, at eight oceanographic stations on a transect across the Yucatan Channel, and at seven oceanographic stations in the south to east portions of the Florida Straits between Cape San Antonio and Cat Cay. Samples to determine radium as well as alkalinity content were also taken at the Yucatan Basin station.

Temperature and salinity data were taken in the Tortugas Shelf area in the same manner as described in Cruise G-6204.





CRUISE G 6213

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sw	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0104 24 40N 081 56W 1962 06 06 02 0010 01 02 1 1 1

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

02 0000 36.418  
02 0010 36.410

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sw	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0105 24 43N 082 05W 1962 06 06 03 0013 01 02 1 1 1

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

03 0000 36.589  
03 0013 36.595

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sw	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0106 24 45N 082 12W 1962 06 06 05 0024 01 03 1 1 1

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

06 0000 36.722  
06 0010 36.555  
06 0024 36.566

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	------	-----	----------

01 0107 24 47N 082 18W 1962 06 06 06 0026 01 03 1 1 1 0247

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

06 0000 27.6 36.632 23.774

06 0010 26.8 36.599 24.007

06 0025 25.9 36.624 24.310

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	------	-----	----------

01 0108 24 49N 082 24W 1962 06 06 07 0031 29 05 0 0 1 0248

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

07 0000 27.9 36.688 23.718

07 0010 27.0 36.593 23.938

07 0020 25.9 36.593 24.287

07 0030 25.6 36.544 24.343

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	------	-----	----------

01 0109 24 51N 082 30W 1962 06 06 08 0034 31 02 0 0 1 0249

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

08 0001 28.0 36.654 23.660

08 0010 27.7 36.645 23.751

08 0020 25.2 36.539 24.463

08 0033 25.1 36.541 24.495

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0110 24 53N 082 36W 1962 06 06 09 0038 28 03 0 0 1 0250

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

09 0001 27.8  
 09 0010 27.1 36.629 23.933  
 09 0020 24.9 36.628 24.622  
 09 0038 24.5 36.534 24.672

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0111 24 57N 082 46W 1962 06 06 11 0043 27 02 1 1 1 0251

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

11 0001 27.7 36.642 23.749  
 11 0010 27.4 36.707 23.895  
 11 0020 26.0 36.553 24.225  
 11 0045 23.2 36.496 25.029

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0112 24 59N 082 53W 1962 06 06 12 0050 27 02 1 2 1 0252

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

12 0001 27.8 36.542 23.641  
 12 0010 27.1 36.548 23.872  
 12 0020 26.9 36.518 23.914  
 12 0030 25.6 36.473 24.290  
 12 0045 24.2 36.431 24.684

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0113 25 00N 083 05W 1962 06 06 13 0056 27 02 1 2 1 0253

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

13 0001 27.9 36.536 23.604  
 13 0010 27.2 36.450 23.766  
 13 0020 27.0 36.473 23.848  
 13 0030 26.1 36.468 24.130  
 13 0053 22.8 36.396 25.069

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0114 25 00N 083 19W 1962 06 06 14 0062 27 02 1 4 1 0254

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

14 0001 27.8 36.579 23.669 04236  
 14 0010 26.8 36.523 23.950 03972  
 14 0020 26.0 36.507 24.191 03746  
 14 0030 25.0 36.467 24.470 03484  
 14 0050 22.4 36.393 25.181 02814

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0115 25 03N 083 24W 1962 06 06 16 0065 27 02 1 3 1 0255

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

16 0001 28.0  
 16 0010 27.1 36.586 23.901 04018  
 16 0020 26.4 36.504 24.062 03868  
 16 0030 25.5 36.469 24.318 03629  
 16 0050 23.6 36.446 24.874 03107  
 16 0059 22.3 36.380 25.200 02799

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0116 24 53N 083 37W 1962 06 06 17 0073 27 02 1 3 1 0257

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

17	0001	29.0	36.579	23.271	04616				
17	0010	28.1	36.532	23.535	04368				
17	0020	27.0	36.483	23.856	04066				
17	0030	25.9	36.461	24.187	03753				
17	0050	24.0	36.448	24.757	03218				
17	0070	21.9	36.358	25.296	02712				

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0117 25 05N 083 44W 1962 06 06 19 0113 27 02 0258

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

19	0001	29.84	36.590	22.994	04880	4.73	111.7	0.00	
19	0010	26.97	36.463	23.850	04067	4.82	108.8	0.03	
19	0020	25.79	36.483	24.238	03701	5.03	111.4	0.14	
19	0030	24.18	36.442	24.699	03266	5.22	112.7	0.18	
19	0050	22.10	36.445	25.306	02695	5.17	107.8	0.14	
19	0075	20.16	36.312	25.737	02293			0.11	
19	0095	18.90	36.310	26.065	01988	4.98	098.1	0.82	

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld.	Sea	BT Slide
C1	0118	24 28N 084 53W	1962	06	07	05	1151	20	04	1	2	1	0263

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
06	0001	28.46	36.290	23.234	04651	4.69	108.2		
06	0020	26.60	36.191	23.763	04154	4.94	110.6		
06	0054	22.44	36.270	25.077	02915	5.36	112.3		
06	0078	21.30	36.306	25.424	02593	5.24	107.7		
06	0103	20.40	36.344	25.698	02342	4.76	096.4		
06	0133	18.57	36.254	26.106	01962	3.71	072.6		
06	0158	17.25	36.264	26.441	01650	3.30	063.1		
06	U0210	14.55	35.915	26.793	01326	3.11	056.3		
06	U0257	12.88	35.627	26.920	01212	3.00	052.3		
06	U0311	11.39	35.411	27.042	01104	3.10	052.3		
06	U0413	09.40	35.144	27.185	00978	2.91	046.9		
06	U0513	07.78	34.950	27.288	00885	3.00	046.5		
06	U0618	06.81	34.9040	27.390	00794	3.24	049.1		
06	U0718	05.97	34.876	27.480	00712	3.52	052.2		
06	U0820	05.51	34.903	27.559	00643	3.83	056.2		
06	U10300	04.65	34.9570	27.703	00515	4.50	064.7		

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld.	Sea	BT Slide
C1	0119	20 23N 085 19W	1962	06	09	07	4558	13	18	1	2	3	0268

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
08	0001	28.13	36.268	23.320	04509	4.69	107.7		
08	0010	28.09	36.261	23.334	04559	4.66	106.9		
08	0020	27.90	36.249	23.388	04512	4.68	107.0		
08	0030	27.640	36.239	23.455	04443	4.76	108.4		
08	0054	27.91	36.236	23.375	04539	4.73	108.1		
08	0079	26.11	36.230	23.947	04003	4.78	106.2		
08	0104	25.38	36.419	24.317	03600	4.32	095.0		
08	0158	22.01	36.749	25.562	02494	3.82	079.7		
08	U0213	19.18	36.567	26.189	01913	3.61	071.6		
08	U0263	18.19	36.420	26.329	01795	3.92	076.3		
08	0318	17.52	36.339	26.433	01713	3.93	075.5		
08	U0422	17.420	35.941	26.152	02012	3.52	067.3		
08	U0532	11.61	35.409	26.999	01200	3.07	052.1		
11	U0613	09.94	35.170	27.114	01092	2.97	048.5		
08	U0636	09.51	35.108	27.138	01068	3.02	048.8		
08	0742	07.53	34.980	27.348	00864	3.12	048.1		
08	U0848	06.13	34.983	27.543	00673	3.54	052.8		
11	U0912	05.56	34.874	27.530	00683	3.70	054.3		
11	U1115	04.62	34.945	27.697	00529	4.76	068.3		
11	U1420	04.31	34.974	27.754	00497	5.10	072.7		
11	U1925	04.12	34.995	27.791	00503	5.66	080.3		
11	U2436	04.06	35.006	27.806	00531	5.81	082.3		
11	U2941	04.14	34.988	27.783	00600	5.79	082.2		

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	---	----------

01 0121 21 55N 086 24W 1962 06 10 10 0232 19 10 1 7 3 0271

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

13	0001	26.84	36.260	23.739	04169	5.01	112.7	0.07	
13	0010	24.43	36.282	24.503	03444			0.15	
13	0019	23.31	36.495	24.996	02978	4.30	091.5	0.20	
13	0029	22.64	36.594	25.265	02726	4.18	088.0	0.20	
13	0048	20.51	36.603	25.865	02162			0.32	
13	0077	19.12	36.515	26.165	01887			0.40	
13	0101	18.16	36.438	26.350	01719	3.83	074.5	0.53	
13	0126	16.85	36.275	26.545	01540	3.82	072.5	0.58	
13	U0150	16.09	36.156	26.633	01463	3.78	070.6	0.70	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	-----	----------

01 0122 21 26N 086 28W 1962 06 11 17 0122 16 09 1 8 4 0275

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

18	0001	27.09	36.229	23.635	04268	4.72	106.5	0.05	
18	0010	27.07	36.229	23.642	04265	4.68	105.6	0.05	
18	0020	26.77	36.227	23.736	04179	4.65	104.4	0.05	
18	0030	25.89	36.226	24.013	03919	4.63	102.5	0.14	
18	0050	18.80	36.065	25.904	02125	3.95	077.6	0.68	
18	0079	15.17	35.972	26.701	01375	3.51	064.3	0.55	

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0123 21 34N 086 15W 1962 06 11 19 0880 16 23 1 8 4 0276

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

20	0001	27.56	36.239	23.491	04406	4.72	107.3	0.12	
20	0007	27.51	36.236	23.505	04395	4.74	107.7	0.05	
20	0014	27.50	36.243	23.513	04390	4.75	107.9	0.12	
20	0020	27.44	36.258	23.544	04363	4.71	106.9	0.10	
20	0033	27.41	36.239	23.540	04373	4.70	106.6	0.08	
20	0046	26.83	36.237	23.725	04201	4.35	097.8	0.03	
20	0060	25.69	36.364	24.179	03773	4.60	101.6	0.16	
20	0085	24.11	36.530	24.786	03205	4.24	091.4	0.20	
20	U0109	21.15	36.620	25.704	02339	3.83	078.7	0.36	
20	U0128	17.47	36.319	26.430	01652			0.62	
20	U0157	16.00	36.128	26.632	01466	3.63	067.7	0.84	
20	U0213	15.09	35.970	26.717	01401	3.57	065.3	1.45	
20	U0262	14.28	35.832	26.788	01345	3.44	061.9	1.15	
20	U0307	12.36	35.514	26.936	01208	3.28	056.6	1.58	
20	U0362	10.25	35.208	27.090	01063	3.19	052.4	1.99	
20	U0452	08.82	35.043	27.200	00966	2.99	047.5	2.01	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0124 21 39N 086 05W 1962 06 11 23 2229 10 05 1 8 3 0277

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

23	0001	27.71	36.256	23.455	04440	4.68	106.7	.	
23	0012	27.67	36.251	23.464	04436	4.69	106.8	0.04	
23	0026	27.64	36.251	23.474	04432	4.70	107.0	0.08	
23	0037	27.65	36.254	23.473	04438	4.71	107.3	0.04	
23	0069	26.53	36.271	23.846	04096	4.75	106.3	0.26	
23	0097	25.86	36.437	24.182	03787	4.38	097.1	0.00	
23	0130	24.12	36.705	24.916	03100	4.00	086.4	0.14	
23	0185	18.81	36.517	26.246	01848	3.82	075.3	0.35	
23	U0230	16.75	36.245	26.546	01573	3.74	070.8	0.59	
23	U0278	14.64	35.914	26.773	01366	3.48	063.1	0.91	
23	U0325	13.81	35.777	26.845	01307			1.03	
23	U0420	11.12	35.356	27.049	01121	3.03	050.8	1.48	
23	U0515	09.91	35.179	27.126	01059	3.01	049.1	1.75	
23	U0610	08.16	34.960	27.238	00952	3.02	047.2	1.92	
26	U0676	06.54	35.012	27.512	00685	3.29	049.5		
23	U0708	06.21	34.965	27.519	00678	3.46	051.7	2.10	
26	U0803	05.65	34.873	27.518	00682	3.70	054.5		
23	U0844	05.34	34.917	27.590	00613	3.98	058.2	1.83	
26	U1020	04.76	34.932	27.670	00546	4.40	063.4	.	
26	U1157	04.45	34.949	27.719	00508	4.83	069.1	.	



CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0125 21 45N 085 53W 1962 06 12 04 1891 05 27 6 8 4 0278

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

04	0001	27.76	36.278	23.455	04440	4.69	107.0		
04	0010	27.73	36.276	23.463	04436	4.70	107.2		
04	0024	27.73	36.273	23.461	04444	4.72	107.6		
04	0034	27.71	36.277	23.471	04439	4.74	108.1		
04	0059	26.78	36.219	23.727	04205	4.82	108.3	0.01	
04	0083	26.13	36.289	23.985	03968	4.56	101.4	0.03	
04	0112	25.73	36.459	24.239	03738	4.40	097.4	0.05	
04	0169	21.43	36.705	25.691	02375	3.75	077.4	0.25	
04	U0220	18.38	36.476	26.324	01785			0.40	
04	U0276	17.11	36.292	26.496	01637	3.80	072.4	0.58	
04	0329	15.73	36.072	26.651	01502	4.19	077.7	0.75	
04	U0420	13.27	35.680	26.882	01295	3.30	058.1	1.18	
04	U0554	09.43	35.098	27.144	01046	2.98	048.0	1.85	
04	U0666	07.45	34.898	27.295	00899	3.07	047.2	2.10	
04	U0776	06.13	34.859	27.446	00754	3.57	053.2	2.06	
06	U0881	05.41	34.918	27.583	00626			1.99	
04	U0891	05.36	34.886	27.563	00644	4.00	058.5	1.94	
06	U1051	04.70	34.938	27.682	00538	4.53	065.2	1.60	
06	1315		34.962			4.91		1.37	
06	U1603	04.21	34.967	27.759	00506	5.20	073.9	1.54	

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	Sg	BT Slide
01	0126	21 51N 085 41W	1962	06	12	09	1920	10 14	6	8	4	0279

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
09	0001	27.70	36.264	23.464	04431	4.71	107.4	0.00	
09	0010	27.71	36.249	23.450	04449	4.70	107.1	0.01	
09	0025	27.72	36.249	23.446	04458	4.71	107.4	0.01	
09	0035	27.70	36.249	23.453	04456	4.78	108.9	0.08	
09	0060	27.10	36.234	23.636	04292	4.78	107.9	0.11	
09	0085	26.35	36.209	23.856	04092	4.55	101.5	0.02	
09	0114	25.92	36.371	24.113	03859	4.47	099.1	0.16	
09	0174	22.19	36.728	25.495	02564			0.38	
09	U0228	18.89	36.534	26.239	01871	3.78	074.6	0.46	
09	U0287	16.86	36.301	26.563	01577	3.75	071.2	0.65	
09	0341	15.25	36.001	26.705	01452	3.55	065.2	0.86	
09	U0455	12.16	35.501	26.965	01217	3.36	057.7	1.83	
09	U0573	09.51	35.126	27.153	01042	3.09	049.9	2.00	
09	U0687	08.06	34.998	27.283	00923	3.00	046.8	2.13	
09	U0800	06.52	34.859	27.394	00812	3.31	049.8	2.26	
09	U0914	05.44	34.957	27.610	00606	3.98	058.3	2.18	
10	U0991	04.89	34.965	27.682	00536	4.33	062.6	2.03	
10	U1190	04.38	34.967	27.741	00489	4.80	068.5	1.50	
10	U1503Q		34.976			5.05		1.36	
10	U1877	04.05Q	35.047	27.840	00451	5.79	082.0	1.65	

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W. m	Ud.	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	-----	---	----------

01 0127 22 00N 085 26W 1962 06 12 12 1956 08 13 2 8 4 0280

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

13	0001	27.71	36.239	23.442	04452	4.70	107.1	0.05	
13	0010	27.71	36.254	23.453	04445	4.67	106.5	0.05	
13	0020	27.730	36.220	23.421	04480	4.69	106.9	0.04	
13	0030	27.70	36.255	23.457	04450	4.72	107.6	0.04	
13	0050	27.71	36.220	23.428	04487	4.75	108.3	0.03	
13	0075	27.20	36.259	23.623	04311	4.71	106.5	0.02	
13	0100	26.62	36.257	23.807	04146	4.82	108.0	0.02	
13	0156	21.97	36.748	25.573	02483	3.83	079.8	0.24	
13	U0207	20.27	36.670	25.981	02111	3.93	079.5	0.29	
13	U0257	18.16	36.455	26.363	01760	3.93	076.5	0.43	
13	0307	16.71	36.236	26.549	01596	3.81	072.1	0.60	
13	U0408	14.30	35.849	26.796	01380	3.46	062.3	0.99	
13	U0514	11.71	35.437	27.002	01193	3.16	053.7	1.42	
13	U0614	09.80	35.218	27.175	01033	2.97	048.3	1.71	
13	U0714	08.23	35.008	27.265	00947	2.97	046.5	1.95	
13	U0815	06.78	34.932	27.416	00799	3.41	051.6	1.95	
14	U1008	05.08	34.936	27.636	00584	4.19	060.8	1.86	
14	U1212	04.40	34.973	27.743	00490	4.94	070.6	1.62	
14	U1516	04.21	35.027	27.807	00455	5.19	073.8	1.50	
14	U1871	04.10	34.995	27.793	00496	5.59	079.3	1.42	

## CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0128 22 06N 085 12W 1962 06 12 16 2134 09 09 2 8 3 0281

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

17	0001	27.94	36.228	23.359	04532	4.71	107.7	0.03	
17	0010	27.83	36.256	23.416	04481	4.68	106.9	0.03	
17	0020	27.79	36.246	23.421	04480	4.71	107.5	0.03	
17	0030	27.46	36.246	23.529	04382	4.70	106.7	0.04	
17	0050	27.03	36.288	23.699	04228	4.73	106.7	0.04	
17	0075	26.71	36.276	23.792	04149	4.68	105.0	0.02	
17	0100	25.88	36.322	24.089	03876	4.63	102.6	0.05	
17	0151	23.80	36.732	25.031	02998	4.12	088.5	0.18	
17	U0201	19.94	36.638	26.044	02048	3.78	076.0	0.35	
17	U0251	18.38	36.503	26.345	01777	4.09	079.9	0.38	
17	0302	17.09	36.334	26.533	01611	3.90	074.3	0.58	
17	U0402	15.26	36.037	26.730	01446	3.71	068.1	0.86	
17	U0503	13.03	35.681	26.932	01269	3.23	056.6	1.27	
17	U0603	10.33	35.239	27.100	01107	2.97	048.9	1.70	
17	U0704	08.46	35.010	27.231	00980	3.02	047.6	1.97	
17	U0805	06.79	34.892	27.383	00828	3.30	049.9	1.99	
18	U1000	05.09	34.942	27.640	00580	4.21	061.2	1.95	
18	U1200	04.46	34.981	27.743	00490	4.75	067.9	1.65	
18	U1500	04.23	34.976	27.764	00493	5.03	071.5	1.51	
18	U2000	03.99	34.991	27.802	00494	5.41	076.5	1.40	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0129 21 53N 085 06W 1962 06 12 24 1392 07 13 2 8 3 0282

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

25	0001	28.08	36.190	23.284	04603	4.81	110.2	0.02	
25	0010	28.07	36.248	23.331	04562	4.76	109.1	0.04	
24	0019	28.09	36.214	23.299	04597	4.68	107.3	0.04	
24	0029	27.60	36.232	23.473	04435	4.74	107.8	0.02	
24	0049	27.21	36.227	23.595	04326	4.85	109.7	0.02	
24	0073	26.79	36.255	23.751	04188	4.87	109.4	0.02	
24	0098	26.19	36.266	23.949	04009	4.86	108.2	0.05	
24	0146	24.47	36.656	24.774	03242	3.98	086.4	0.13	
24	0195	20.93	36.697	25.823	02258	3.73	076.4	0.35	
24	0243	19.24	36.580	26.184	01929	3.87	076.9	0.36	
24	U0292	17.78	36.417	26.429	01709	3.98	076.9	0.45	
24	U0389	15.51	36.050	26.684	01488	3.04	056.1	0.75	
24	0486	12.85	35.618	26.920	01274	3.12	054.4	1.23	
24	U0583	11.07	35.349	27.053	01156	3.71	062.2	1.50	
24	U0680	09.14	35.086	27.182	01031	3.06	049.0	1.88	
24	U0776	07.90	34.970	27.285	00934	3.06	047.6	1.96	
24	U0970	05.25	34.952	27.629	00591	4.22	061.5	1.79	
24	U1269	04.29	34.966	27.750	00486	5.21	074.2	1.51	

CRUISE G 6213

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wet	Cl	Sdg	BT Slide
01	0130	22 44N 08 52W	1962	06	13	07	2355	08	13	5	9	3	0283

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
07	0001	27.78	36.229	23.412	04481	4.78	109.1	0.05	
07	0010	27.76	36.316	23.484	04416	4.67	106.6	0.06	
07	0020	27.74	36.237	23.431	04471	4.71	107.4	0.04	
07	0030	27.10	36.248	23.646	04269	4.94	111.5	0.05	
07	0049	26.43	36.225	23.843	04090	4.70	105.0	0.06	
07	0073	26.14	36.262	23.962	03986	4.74	105.4	0.02	
07	0098	25.80	36.281	24.083	03881	4.71	104.2	0.18	
07	0146	25.22	36.273	24.256	03735	4.60	100.8	0.10	
07	U0194	23.37	36.697	25.132	02919	3.94	084.0	0.28	
07	U0240	20.13	36.757	26.084	02025	3.71	074.9	0.38	
07	0288	18.87	36.589	26.286	01847	3.71	073.2	0.46	
07	U0382	16.61	36.237	26.573	01597	3.81	071.9	0.68	
07	U0475	14.25	35.852	26.809	01386	3.44	061.8	1.06	
07	U0569	11.41	35.414	27.041	01167	3.03	051.2	1.54	
07	U0665	09.14	35.080	27.178	01033	2.95	047.2	1.95	
07	U0764	07.49	34.925	27.311	00902	3.13	048.2	2.10	
09	U0900	06.30	34.877	27.438	00782	3.42	051.1	2.06	
09	U1076	05.27	34.923	27.604	00627	4.04	058.9	1.85	
09	U1355	04.45	34.960	27.727	00520	4.79	068.5	1.70	
09	U1819	04.25	34.980	27.765	00523	5.11	072.7	1.55	
09	U2115	04.21	35.082	27.850	00470	5.36	076.2	1.60	

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	CH	SS	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0131 23 07N 083 57W 1962 06 13 15 2431 15 17 2 8 3 0284

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

16	0001	27.57	36.326	23.553	04346	4.79	109.0	0.02	
16	0010	27.53	36.358	23.590	04315	4.77	108.5	0.03	
16	0020	27.55	36.358	23.584	04325	4.75	108.1	0.02	
16	0029	27.32	36.315	23.626	04289	4.81	109.0	0.05	
16	0049	26.32	36.234	23.884	04050	4.91	109.5	0.05	
16	0073	25.87	36.279	24.059	03893	4.81	106.5	0.00	
16	0098	25.46	36.219	24.141	03825	4.82	106.0	0.01	
16	0147	25.20	36.275	24.264	03728	4.54	099.5	0.06	
16	U0201	23.45	36.722	25.127	02926	3.89	083.1	0.20	
16	U0249	20.21	36.640	25.974	02133	3.67	074.2	0.33	
16	U0299	18.42	36.478	26.316	01821	3.80	074.3	0.41	
16	U0397	16.24	36.163	26.603	01571	3.78	070.8	0.68	
16	U0500	13.31	35.672	26.868	01331	3.34	058.8	1.14	
16	U0599	10.79	35.288	27.056	01153	3.08	051.3	1.58	
16	U0698	08.68	35.031	27.213	00999	2.99	047.4	1.87	
16	U0797	07.27	34.958	27.368	00849	3.20	049.0	1.87	
17	U1017Q	05.71	34.884	27.519	00709	3.70	054.6	1.87	
17	U1220	04.85	34.917	27.648	00591	4.38	063.2	1.72	
17	U1533	04.25	34.962	27.751	00509	5.05	071.8	1.54	
17	U2043Q	04.21	34.975	27.765	00541	5.20	073.9	1.36	
17	U2404	04.19	34.976	27.768	00570	5.44	077.3	1.47	

CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	W. Kts.	W. Sec	Chl.	Sec	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	---------	--------	------	-----	----------

01 0132 23 19N 082 37W 1962 06 14 07 1724 15 15 2 8 3 0285

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

09	0001	27.98	36.229	23.346	04544	4.63	106.0	0.02	
09	0010	27.97	36.239	23.357	04537	4.59	105.0	0.03	
09	0020	27.93	36.226	23.360	04538	4.71	107.7	0.06	
08	0028	27.97	36.225	23.347	04555	4.71	107.8	0.02	
08	0046	27.16	36.260	23.636	04286	4.82	108.9	0.09	
08	0074	26.17	36.214	23.916	04030	4.82	107.2	0.04	
08	0096	25.78	36.361	24.149	03817	4.60	101.8	0.03	
08	0144	24.10	36.660	24.888	03132	3.92	084.6	0.16	
08	0190	21.64	36.725	25.648	02424	3.92	081.3	0.19	
08	0241	18.79	36.384	26.150	01959	3.45	067.9	0.45	
08	0275	16.64	36.184	26.526	01607	3.29	062.1	0.71	
08	U0355	13.48	35.716	26.867	01293	3.05	053.9	1.16	
08	U0430	11.36	35.386	27.028	01145	2.90	048.9	1.43	
08	U0500	09.41	35.114	27.160	01019	2.84	045.8	1.66	
08	U0580	08.65	35.031	27.218	00972	2.92	046.2	1.85	
08	U0655	07.34	34.898	27.311	00881	3.06	046.9	2.04	
08	U0804	05.78	34.878	27.505	00696	3.55	052.4	1.98	
08	U0934	05.09	34.906	27.612	00599	4.12	059.8	1.87	
08	U1272	04.29	34.951	27.738	00497	4.98	070.9	1.56	

## CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0133 23 40N 081 35W 1962 06 14 14 1470 13 18 2 8 3 0286

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

15	0001	27.96	36.201	23.332	04557	4.67	106.8	0.14	
15	0010	27.93	36.203	23.343	04551	4.77	109.1	0.04	
15	0020	27.73	36.275	23.463	04441	4.80	109.5	0.01	
15	0029	27.02	36.253	23.676	04241	4.92	110.9	0.04	
15	0048	26.45	36.221	23.833	04098	4.91	109.7	0.20	
15	0073	26.02	36.229	23.975	03974	4.75	105.4	0.05	
15	0094	25.51	36.375	24.244	03726	4.43	097.6	0.05	
15	0140	24.08	36.666	24.898	03121	3.99	086.1	0.19	
15	U0192	21.02	36.651	25.763	02314	3.79	077.7	0.32	
15	U0237	18.05	36.311	26.281	01831	3.32	064.4	0.62	
15	U0285	15.65	36.081	26.676	01464	3.19	059.0	0.90	
15	U0378	12.60	35.568	26.931	01233	3.01	052.2	1.36	
15	U0475	10.39	35.243	27.093	01087	2.97	049.0	1.74	
15	U0569	09.04	35.065	27.182	01008	2.95	047.1	1.90	
15	U0664	07.69	34.939	27.292	00905	3.05	047.2	2.10	
15	U0761	06.45	34.877	27.418	00784	3.49	052.4	2.35	
16	U0909	05.37	34.923	27.592	00621	4.02	058.8	2.02	
16	U1093	04.48	34.945	27.712	00508	4.78	068.4	1.61	
16	U1290	04.22	34.972	27.762	00474	5.12	072.8	1.67	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0134 24 00N 080 35W 1962 06 14 22 1072 13 05 2 7 6 0287

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

23	0001	27.08	36.157	23.584	04316	4.70	106.0	0.02	
23	0018	26.55	36.277	23.844	04076	4.81	107.7	0.04	
23	0028	26.39Q	36.265	23.885	04040	4.81	107.4	0.03	
23	0047	26.04	36.265	23.996	03943	4.80	106.6	0.04	
23	0070	25.95	36.254	24.015	03934	4.78	106.0	0.05	
23	0094	25.43	36.234	24.162	03804	4.63	101.8	0.09	
23	0135	25.03	36.481	24.471	03526	4.25	093.0	0.17	
23	0174	22.32	36.537	25.313	02736	4.61	096.5	0.18	
23	U0215	20.69	36.551	25.777	02309	4.21	085.8	0.24	
23	U0250Q	18.76Q	36.513	26.256	01862	3.83	075.4	0.45	
23	U0317	15.76	36.152	26.706	01446	3.75	069.6	0.75	
23	U0394	12.98	35.720	26.972	01201	3.35	058.6	1.18	
23	U0464	11.06	35.382	27.080	01102	2.99	050.1	1.56	
23	U0535	10.24	35.236	27.114	01079	2.90	047.7	1.63	
23	U0610Q	09.11	35.122	27.215	00986	3.02	048.3	1.86	
23	U0767	06.59	34.924	27.436	00770	3.18	047.9	1.97	



CRUISE G 6213

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wct.	Chl.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0135 24 43N 079 54W 1962 06 15 05 0869 11 16 2 8 3 0288

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

06	0001	27.06	36.220	23.638	04265	4.75	107.2	0.02	
06	0009	26.90	36.234	23.700	04210	4.80	108.0	0.00	
06	0018	26.68	36.239	23.774	04143	4.84	108.6	0.00	
06	0027	26.61	36.254	23.807	04114	4.85	108.7	0.00	
06	0045	26.61	36.245	23.801	04128	4.82	108.0	0.04	
06	0067	26.57	36.247	23.815	04124	4.73	105.9	0.00	
06	0090	26.36	36.244	23.879	04072	4.78	106.7	0.02	
06	0134	25.12	36.396	24.379	03613	4.36	095.5	0.06	
06	U0180	21.61	36.608	25.567	02496	4.11	085.1	0.20	
06	U0220	18.95	36.539	26.227	01879	3.80	075.1	0.36	
06	U0260	17.58	36.373	26.444	01683	3.87	074.5	0.45	
06	U0342	16.19	36.153	26.607	01549	3.69	069.1	0.70	
06	U0430	13.66	35.749	26.855	01326	3.22	057.1	1.09	
06	U0512	11.58	35.409	27.005	01189	2.97	050.3	1.35	
06	U0601	09.14	35.082	27.179	01019	2.99	047.9	1.78	
06	U0698	06.91	34.913	27.383	00814	3.27	049.6	1.96	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wct.	Chl.	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0136 25 30N 079 23W 1962 06 15 13 0757 11 11 6 8 3 0289

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

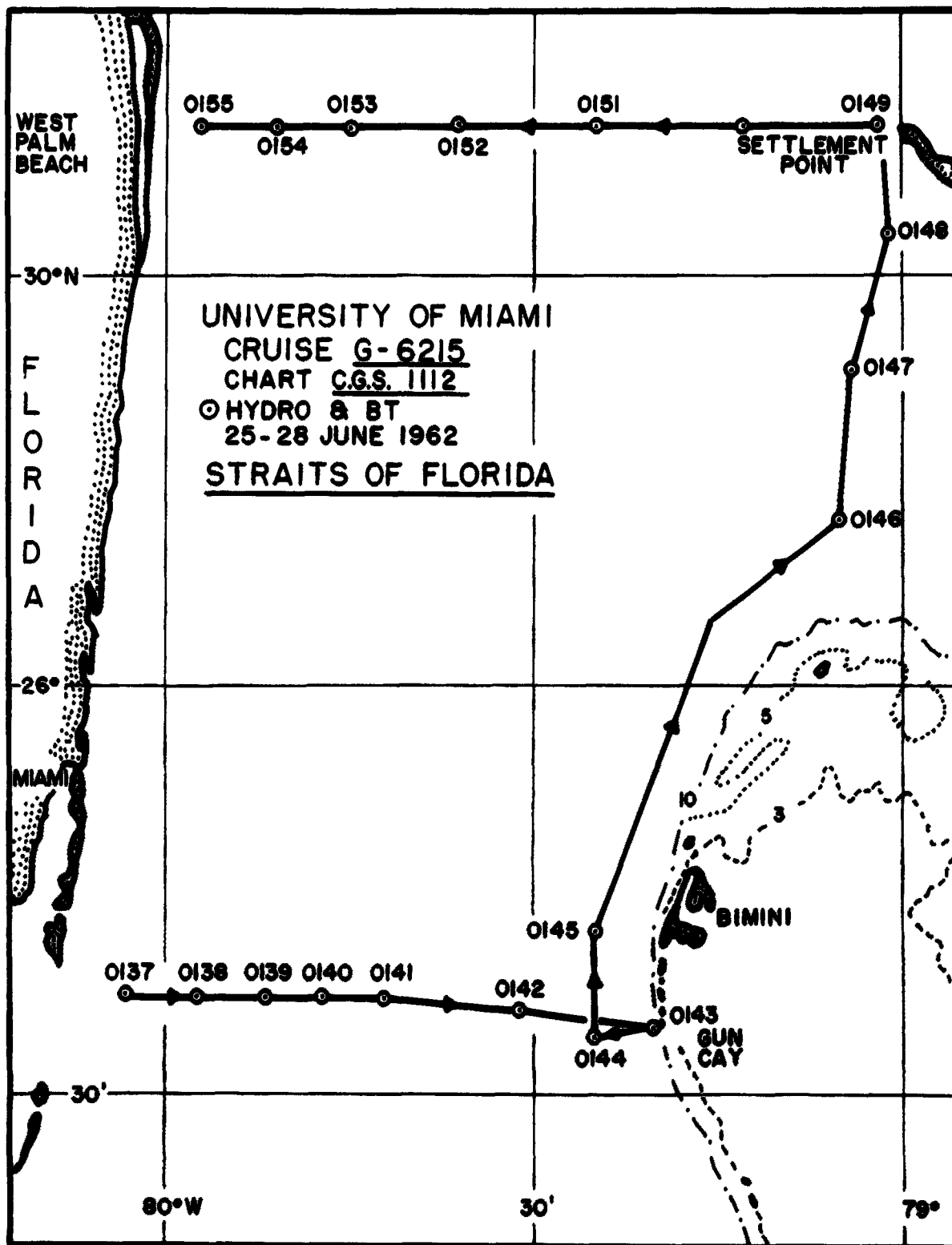
13	0001	27.12	36.132	23.553	04347	4.71	106.3	0.06	
13	0010	27.10	36.170	23.588	04317	4.77	107.6	0.07	
13	0019	27.11	36.194	23.603	04307	4.78	107.9	0.06	
13	0029	27.10	36.223	23.628	04287	4.78	107.9	0.09	
13	0053	26.94	36.245	23.695	04232	4.81	108.3	0.04	
13	0078	25.75	36.459	24.232	03730	4.64	102.7	0.04	
13	0102	25.44	36.606	24.440	03543	4.65	102.5	0.09	
13	0154	22.73	36.637	25.272	02769	4.16	087.8	0.21	
13	U0205	20.72	36.677	25.865	02222	3.73	076.1	0.35	
13	U0252	18.31	36.425	26.303	01817	3.63	070.8	0.52	
13	U0303	17.59	36.332	26.410	01730	3.62	069.7	0.61	
13	U0404	16.04	36.115	26.613	01563	3.46	064.6	0.84	
13	U0506	12.38	35.537	26.950	01246	3.03	052.3	1.35	
13	U0614	10.07	35.196	27.112	01096	2.89	047.3	1.72	
13	U0718	08.10	34.991	27.272	00940	2.98	046.6	1.92	

CRUISE G 6215

June 25-28

The collection of oceanographic data for seasonal and yearly variations in the northern Florida Straits was continued. Productivity samples were collected on the eastern side of the Straits.

During these operations, the U. S. Coast and Geodetic Survey vessel HYDROGRAPHER was simultaneously making sections across Santaren Channel and Nicholas Channel. Arrangements have been made to exchange data, which, while not truly synoptic, is the best attempt at synopticity made in this area.



CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	ss	BT Slide
01	0137	25 37N 080 03W	1962	06	25	17 0202	11	05	1	3	2	0290

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
18	0001	28.19	35.983	23.092	04786	4.71	108.0	0.05	
18	0010	27.79	36.033	23.261	04629	4.77	108.7	0.04	
18	0020	27.51	36.269	23.530	04377	4.81	109.3	0.10	
18	0030	26.72	36.517	23.971	03960	4.96	111.5	0.05	
18	0048	24.46	36.432	24.607	03360	5.11	110.8	0.07	
18	0072	20.53	36.285	25.618	02406	4.73	095.9	0.18	
18	0096Q	16.52	36.016	26.425	01644	3.70	069.6	0.73	
18	0121Q	13.34	35.687	26.873	01221	3.23	056.9	1.26	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	ss	BT Slide
01	0138	25 38N 079 57W	1962	06	25	19 0382	14	06	1	3	2	0291

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
20	0001	28.92	36.192	23.007	04868			0.03	
20	0009	28.49	36.213	23.166	04719	4.66	107.5	0.16	
20	0018	28.14	36.220	23.287	04608	4.71	108.1	0.07	
20	0032	27.15	36.309	23.676	04242	4.89	110.5	0.03	
20	0048	25.29	36.301	24.256	03696	5.15	113.0	0.04	
20	0073	23.15	36.321	24.911	03080	5.37	113.9	0.04	
20	0093	20.99	36.333	25.529	02498	4.48	091.6	0.23	
20	0137	16.43	36.166	26.561	01528	3.39	063.7	0.83	
20	U0179	14.82	35.915	26.734	01373	3.23	058.8	1.02	
20	U0228	12.57	35.584	26.949	01176	3.18	055.1	1.29	
20	U0279	07.66	35.000	27.345	00789			1.96	

CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	-----	----------

01 0139 25 37N 079 52W 1962 06 25 22 0382 08 03 2 2 2 0292

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

23	0001	28.86	36.169	23.010	04865	4.59	106.5	0.03	
23	0009	28.46	36.173	23.146	04739	4.84	111.6	0.05	
23	0018	28.46	36.169	23.143	04745	4.67	107.6	0.08	
23	0030	27.28	36.239	23.582	04331	4.84	109.6	0.04	
23	0045	26.16	36.321	24.000	03938	5.01	111.5	0.03	
23	0068	23.47	36.362	24.648	03138	5.07	108.1	0.02	
23	0086	21.67	36.299	25.316	02699	5.33	110.2	0.08	
23	0123	18.03	36.225	26.220	01850	3.80	073.7	0.54	
23	U0170	15.37	35.999	26.676	01427	3.30	060.7	0.94	
23	U0211	14.22	35.836	26.803	01315	3.31	059.5	1.07	
23	U0270	10.55	35.313	27.119	01017	3.04	050.3	1.59	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	-----	----------

01 0140 25 37N 079 47W 1962 06 26 00 0695 10 08 2 2 2 0293

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

01	0001	28.70	36.252	23.125	04755	4.69	108.6	0.05	
01	0008	28.60	36.220	23.135	04749	4.70	108.6	0.02	
01	0016	28.45	36.214	23.180	04709	4.70	108.4	0.02	
01	0028	28.44	36.207	23.178	04716	4.68	107.9	0.01	
01	0045	27.88	36.287	23.423	04489	4.83	110.4	0.01	
01	0068	25.22	36.358	24.320	03642	4.70	103.1	0.02	
01	0087	24.54	36.657	24.753	03237	4.13	089.8	0.12	
01	0119	21.17	36.380	25.516	02521	4.72	096.8	0.07	
01	U0149	19.09	36.320	26.024	02046	3.77	074.5	0.42	
01	U0179	17.21	36.276	26.460	01640	3.40	064.9	0.70	
01	U0210	15.67	36.052	26.649	01466	3.22	059.6	0.89	
01	U0268	13.01	35.643	26.907	01229	3.16	055.3	1.23	
01	U0326	10.69	35.314	27.095	01053	3.02	050.2	1.47	
01	U0434	07.19	34.926	27.354	00803	3.06	046.8	1.88	

CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sg.	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0141 25 37N 079 42W 1962 06 26 02 0788 09 07 2 2 2 0294

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

03	0001	28.62	36.262	23.160	04722	4.67	108.0	0.04	
03	0008	28.50	36.251	23.191	04695	4.71	108.7	0.01	
03	0017	28.45	36.244	23.203	04688	4.71	108.6	0.04	
03	0029	28.26	36.234	23.258	04640	4.76	109.4	0.03	
03	0045	27.10	36.272	23.664	04259	4.89	110.4	0.02	
03	0068	26.23	36.397	24.035	03914	4.89	109.0	0.06	
03	0085	25.42	36.532	24.390	03583	4.44	097.8	0.03	
03	0122	22.19	36.607	25.403	02631	5.45	114.0	0.19	
03	U0157	19.64	36.569	26.071	02006	3.66	073.2	0.39	
03	U0190	16.95Q	36.223	26.482	01622	3.29	062.5	0.73	
03	U0225	16.07	36.172	26.650	01471	3.83	071.5	0.68	
03	U0289	13.59	35.756	26.875	01267	4.27	075.7	1.16	
03	U0356	10.81	35.325	27.082	01073	2.93	048.8	1.54	
03	U0424	09.01	35.103	27.217	00947	2.92	046.6	1.77	
03	0526Q	07.26	34.928	27.346	00826	3.20	049.0	2.00	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sg.	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0142 25 36N 079 31W 1962 06 26 05 0812 12 10 1 5 0 0295

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

05	0001	28.03	36.286	23.373	04518	4.71	107.9	0.02	
05	0009	27.97	36.302	23.405	04492	4.81	110.1	0.02	
05	0018	27.86	36.309	23.446	04456	4.81	109.9	0.04	
05	0031	27.55	36.320	23.555	04357	4.78	108.7	0.02	
05	0049	26.58	36.292	23.846	04087	4.79	107.3	0.02	
05	0075	26.08	36.290	24.002	03949	4.79	106.5	0.03	
05	0096	25.58	36.396	24.238	03732	4.62	101.9	0.05	
05	0137	24.05	36.569	24.834	03180	4.33	093.3	0.15	
05	U0175	20.81	36.683	25.845	02230	4.27	087.2	0.21	
05	U0212	19.07	36.549	26.204	01898	3.94	078.0	0.42	
05	U0250	17.72	36.398	26.429	01694	4.02	077.6	0.45	
05	U0324	15.26	36.019	26.717	01436	3.29	060.4	0.95	
05	U0402	13.20	35.677	26.894	01278	3.26	057.3	1.18	
05	U0485	10.55	35.290	27.101	01083	3.01	049.8	1.53	
05	U0569	08.88	35.061	27.205	00985	2.99	047.6	1.81	
05	U0628	07.64	34.939	27.300	00891	3.01	046.5	1.58	

CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	-----	----------

01 0143 25 35N 079 20W 1962 06 26 08 0268 14 11 1 5 2 0296

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

09	0001	27.99	36.264	23.369	04522	4.73	108.3	0.04	
09	0010	27.75	36.272	23.454	04445	4.76	108.6	0.05	
09	0020	27.26	36.251	23.597	04312	4.85	109.8	0.04	
09	0030	27.08	36.288	23.683	04235	4.81	108.6	0.14	
09	0050	25.52	36.275	24.165	03783	4.78	105.3	0.22	
09	0075	25.56	36.470	24.300	03665	4.71	103.9	0.12	
09	0100	24.36	36.714	24.850	03150			0.12	
09	0140	23.04	36.719	25.244	02790	4.59	097.4	0.13	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	-----	----------

01 0144 25 34N 079 25W 1962 06 26 10 0828 15 13 1 5 3 0297

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

11	0001	27.66	36.249	23.466	04429	4.73	107.7	0.23	
11	0030	26.74	36.298	23.799	04124	4.85	108.9	0.03	
11	0055	26.16	36.326	24.004	03939	4.78	106.4	0.13	
11	0110	24.50	36.556	24.689	03308	4.35	094.4	0.10	
11	U0166	21.47	36.664	25.649	02413	4.29	088.6	0.12	
11	U0221	19.06	36.572	26.224	01882	4.18	082.8	0.27	
11	U0277	18.25	36.530	26.398	01735	4.54	068.6	0.21	
11	U0387	15.94	36.203	26.704	01471	3.85	071.7	0.76	
11	U0498	13.42	35.733	26.892	01308	3.46	061.1	1.04	
11	U0608	09.50	35.131	27.158	01044	2.89	046.7	1.74	
11	U0719	06.77	34.878	27.375	00822	3.22	048.7	2.20	
11	U0795	06.21	34.870	27.444	00760	3.42	051.0	1.87	

CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	---	----------

01 0145 25 42N 079 25W 1962 06 26 14 0726 13 13 2 5 3 0298

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

15	0001	28.00	36.285	23.382	04510	4.71	107.9	0.04	
15	0010	27.91	36.279	23.407	04490	4.74	108.4	0.04	
15	0020	27.80	36.295	23.455	04448	4.78	109.1	0.05	
15	0030	26.89	36.314	23.763	04158	4.81	108.3	0.02	
15	0050	26.22	36.372	24.020	03921	4.79	106.7	0.02	
15	0075	25.91	36.344	24.096	03859	4.71	104.4	0.03	
15	0100	25.24	36.456	24.388	03591	4.49	098.6	0.07	
15	0150	22.13	36.581	25.401	02644	4.50	094.0	0.12	
15	U0204	19.72	36.632	26.098	01998	4.22	084.6	0.14	
15	U0254	18.42	36.541	26.364	01760	4.55	089.0	0.15	
15	U0304	17.89	36.494	26.460	01684	4.57	088.5	0.24	
15	U0401	15.69	36.121	26.698	01480	3.99	073.9	0.71	
15	U0498	12.82	35.647	26.948	01250	.	.	1.20	
15	U0542	10.28Q	35.256	27.122	01073	3.02	049.7	1.69	
15	U0710	06.93	34.913	27.381	00818	3.20	048.6	2.04	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	---	----------

01 0146 26 12N 079 05W 1962 06 26 19 0347 12 09 2 4 3 0299

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

20	0001	28.27	36.272	23.283	04604	4.70	108.1	0.04	
20	0010	27.61	36.249	23.482	04418	4.73	107.7	0.07	
20	0020	27.48	36.241	23.518	04387	4.82	109.5	0.03	
20	0030	27.37	36.242	23.555	04357	4.85	110.0	0.09	
20	0050	26.89	36.239	23.707	04220	4.89	110.0	0.00	
20	0081	25.61	36.341	24.187	03775	4.77	105.3	0.01	
20	0106	25.22	36.456	24.394	03587	4.60	101.0	0.03	
20	0155	22.49	36.671	25.367	02679	3.97	083.4	0.20	
20	U0206	21.31	36.659	25.689	02390	4.14	085.3	0.16	
20	U0262	19.01	36.562	26.229	01892	4.46	088.2	0.14	
20	U0302	18.07	36.456	26.387	01754	4.23	082.2	0.32	



CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sa	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0147 26 23N 079 04W 1962 06 26 21 0546 15 05 1 2 1 0300

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

23	0001	28.36	36.265	23.248	04637	4.69	108.0	0.02	
23	0010	28.08	36.245	23.326	04567	4.73	108.4	0.04	
23	0020	27.88	36.238	23.386	04514	4.78	109.2	0.04	
23	0030	27.27	36.285	23.620	04295	4.83	109.4	0.06	
23	0050	25.99	36.473	24.168	03780	4.92	109.3	0.04	
23	0075	25.35	36.548	24.424	03547	4.89	107.6	0.02	
23	0100	24.79	36.603	24.637	03354	4.85	105.8	0.03	
23	0149	23.49	36.695	25.095	02936	4.94	105.6	0.05	
23	U0206	20.59	36.630	25.864	02222	4.60	093.6	0.17	
23	U0257	18.66	36.547	26.308	01815	4.29	084.3	0.30	
23	U0307	17.91	36.433	26.409	01734	4.17	080.8		
23	U0407	16.77	36.294	26.579	01600	4.32	081.8	0.47	
23	U0513	13.69	35.787	26.878	01328	3.62	064.3	1.00	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sa	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0148 26 33N 079 01W 1962 06 27 00 0684 13 08 2 1 2 0301

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

01	0001	28.37	36.268	23.247	04638	4.68	107.8	0.06	
01	0010	28.12	36.260	23.324	04569	4.75	109.0	0.06	
01	0020	28.01	36.249	23.352	04547	4.82	110.4	0.08	
01	0030	27.27	36.237	23.583	04330	4.83	109.3	0.05	
01	0050	25.95	36.466	24.175	03773	4.83	107.2	0.05	
01	0075	25.12	36.562	24.505	03469	4.93	108.1	0.06	
01	0100	24.55	36.622	24.724	03271	4.89	106.3	0.05	
01	0150	23.03	36.692	25.227	02811	4.82	102.3	0.09	
01	U0205	20.34	36.635	25.935	02154	4.66	094.4	0.11	
01	U0257	18.65	36.549	26.312	01811	4.64	091.2	0.20	
01	U0307	18.03	36.496	26.427	01717	4.59	089.2	0.30	
01	U0408	17.00	36.331	26.553	01627	4.47	085.1	0.45	
01	U0514	15.04	36.005	26.755	01456	3.95	072.2	0.82	
01	U0645	12.19	35.687	27.104	01136	3.56	061.3	1.24	

CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0149 26 41N 079 02W 1962 06 27 02 0337 12 12 1 9 1 0302

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

03	0001	28.41	36.292	23.252	04634	4.68	107.9	0.08	
03	0010	28.22	36.286	23.310	04582	4.74	108.9	0.19	
03	0020	27.77	36.288	23.459	04444	4.83	110.2	0.10	
03	0030	27.60	36.295	23.520	04390	4.78	108.8	0.04	
03	0050	26.41	36.404	23.984	03956	4.84	108.2	0.10	
03	0075	25.57	36.515	24.331	03635	4.91	108.4	0.17	
03	0100	24.71	36.635	24.685	03308	4.91	107.0	0.10	
03	0151	22.32	36.676	25.419	02627	4.81	100.8	0.11	
03	U0200	20.09	36.625	25.995	02095	4.84	093.6	0.14	
03	U0250	19.08	36.577	26.223	01894	4.64	091.9	0.14	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0150 26 41N 079 13W 1962 06 27 04 0664 13 14 1 9 3 0303

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

05	0001	28.26	36.283	23.295	04593	4.70	108.1	0.03	
05	0010	28.08	36.279	23.351	04543	4.76	109.2	0.09	
05	0020	27.61	36.170	23.423	04479	4.76	108.3	0.07	
05	0030	27.45	36.243	23.530	04381	4.79	108.7	0.05	
05	0054	26.53	36.365	23.917	04022	4.81	107.7	0.20	
05	0079	25.30	36.598	24.477	03498	4.91	108.0	0.09	
05	0103	24.95	36.629	24.607	03383	4.90	107.2	0.05	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

01 0151 26 41N 079 25W 1962 06 27 06 0640 10 11 1 1 1 0304

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

07	0001	28.35	36.232	23.227	04658	4.68	107.7	0.14	
07	0010	28.28	36.253	23.266	04625	4.70	108.1	0.19	
07	0020	27.80	36.231	23.407	04494	4.79	109.3	0.25	
07	0029	27.51	36.238	23.506	04403	4.84	110.0	0.18	
07	0049	26.81	36.253	23.743	04185	4.87	109.5	0.17	
07	0078	26.36	36.322	23.938	04011	4.83	107.8	0.20	
07	0102	25.48	36.476	24.329	03648			0.17	

CRUISE G 6215

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0152 26 41N 079 36W 1962 06 27 09 0737 11 05 2 6 2 0305

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

10	0001	28.46	36.266	23.216	04668	4.64	107.0	0.07	
10	0009	28.41	36.271	23.236	04652	4.71	108.6	0.13	
10	0018	28.41	36.251	23.221	04671	4.71	108.5	0.11	
10	0028	28.42	36.292	23.249	04649	4.67	107.7	0.15	
10	0044	26.95	36.238	23.687	04237	4.84	109.0	0.22	
10	0069	26.12	36.310	24.004	03944	4.82	107.2	0.19	
10	0090	25.04	36.556	24.525	03456	4.35	095.3	0.22	
10	0135	21.70	36.591	25.529	02515	4.18	086.7	0.36	
10	U0173	18.97	36.476	26.174	01913	3.62	071.5	0.58	
10	U0221	17.26	36.331	26.490	01625	3.92	075.0	0.65	
10	U0259	16.00	36.146	26.646	01486	4.07	075.9	0.83	
10	U0348	13.44	35.714	26.873	01285	3.16	055.8	1.25	
10	U0430	10.14	35.224	27.122	01047	2.96	048.5	1.87	
10	U0515	08.01	34.995	27.289	00887	3.32	051.8	2.11	
10	U0560	07.06	34.992	27.425	00755			1.76	

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

01 0153 26 41N 079 45W 1962 06 27 11 0544 08 04 1 6 2 0306

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

12	0001	28.34	36.186	23.195	04688	4.73	108.8	0.04	
12	0009	28.29	36.177	23.205	04682			0.03	
12	0018	28.30	36.168	23.195	04695	4.92	113.1	0.02	
12	0027	27.88	36.231	23.381	04522	4.94	112.9	0.01	
12	0039	27.24	36.288	23.631	04288	4.91	111.1	0.01	
12	0068	25.72	36.355	24.163	03792	4.75	105.0	0.01	
12	0088	24.64	36.555	24.646	03340	4.37	095.1	0.06	
12	0132	20.51	36.406	25.715	02336			0.18	
12	U0175	18.32	36.262	26.176	01910	3.50	068.2	0.54	
12	U0214	16.32	36.152	26.576	01538	3.43	064.4	0.77	
12	U0258	14.70	35.941	26.781	01353	3.43	062.3	0.90	
12	U0299	13.30	35.684	26.879	01265	3.44	060.6	1.18	
12	U0409	09.56	35.168	27.177	00986	3.36	054.4	1.69	

CRUISE G 6215

Ship	Sta. No.	Position °   '   °   '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	---------------------------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0154 26 41N 079 51W 1962 06 27 14 0334 00 00 1 4 1 0307

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

14	0001	28.49	36.163	23.128	04752	5.25	121.1	0.03	
14	0009	28.34	36.131	23.154	04731	5.23	120.3	0.05	
14	0018	28.35	36.115	23.139	04749	5.22	120.1	0.05	
14	0027	28.28	36.123	23.168	04725	5.26	120.9	0.01	
14	0039	26.53	36.300	23.868	04062	5.44	121.8	0.02	
14	0053	24.60	36.341	24.496	03468	5.78	125.5	0.03	
14	0066	22.91	36.353	25.005	02988	6.04	127.6	0.03	
14	0094	19.71	36.280	25.832	02210	4.81	096.2	0.31	
14	U0138	17.33	36.234	26.399	01684	3.71	071.0	0.72	
14	U0209	12.39	35.560	26.966	01154	3.50	060.4	1.36	

Ship	Sta. No.	Position °   '   °   '	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca.	Cld.	Sea	BT Slide
------	----------	---------------------------	-----	-----	-----	-----	--------	-----------	------	------	------	-----	----------

01 0155 26 41N 079 57W 1962 06 27 16 0197 09 02 1 2 1 0308

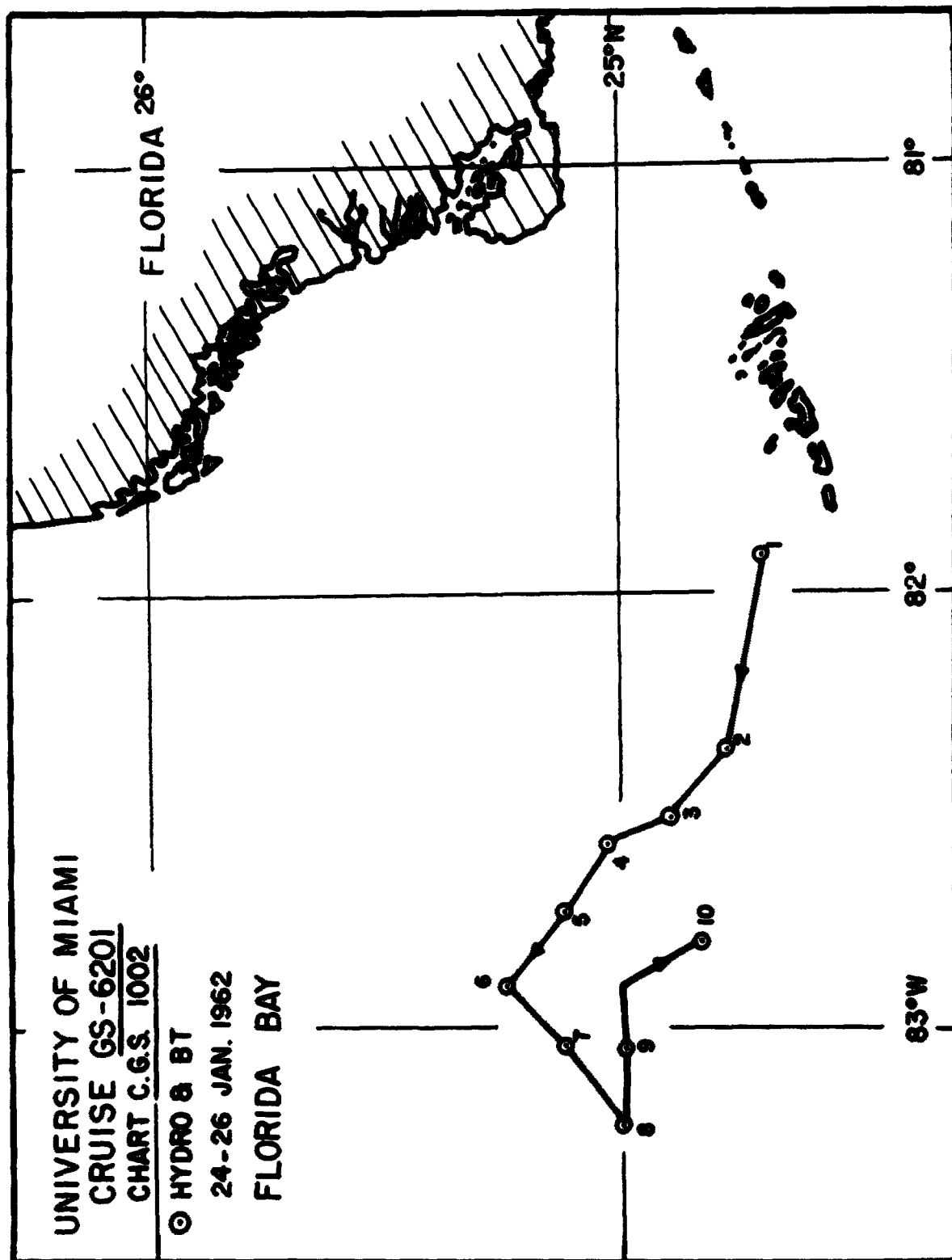
GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

16	0001	28.30	36.124	23.162	04720	5.23	120.2	0.02	
16	0007	28.10	36.149	23.247	04641	5.26	120.6	0.03	
16	0014	27.46	36.193	23.489	04413	5.40	122.6	0.03	
16	0022	26.96	36.270	23.708	04207	5.35	120.5	0.06	
16	0034	23.81	36.332	24.726	03242	5.32	114.0	0.17	
16	0057	21.00	36.271	25.479	02532	5.21	106.5	0.25	
16	0074	19.20	36.232	25.928	02110	4.71	093.3	0.39	
16	0101	16.00	35.932	26.482	01591	4.04	075.2	0.86	

CRUISE GS 6201

January 24-26

The surface samples for temperature and salinity were taken with a bucket. Bottom samples were taken with a Nansen bottle attached to the bathythermograph wire just above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces.



CRUISE GS 6201

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W <sup>ed</sup>	Cl <sup>d</sup>	g <sup>s</sup>	BT Slide
08	0001	24 42N 081 55W	1962	01	24	19		04 10		3	2	0001

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
19	0000	21.2	36.861	25.873					
19	0014	21.0	36.944	25.991					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W <sup>ed</sup>	Cl <sup>d</sup>	g <sup>s</sup>	BT Slide
08	0002	24 46N 082 23W	1962	01	24	24		04 10		2	2	0002

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
24	0000	22.0	36.388	25.291					
24	0030	21.6							

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W <sup>ed</sup>	Cl <sup>d</sup>	g <sup>s</sup>	BT Slide
08	0003	24 54N 082 32W	1962	01	25	03		08		3	2	0003

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
03	0000	22.6	36.532	25.230					
03	0038	20.6	36.725	25.934					

CRUISE GS 6201

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-----	-----	----------

08 0004 25 02N 082 35W 1962 01 25 06 03 08 2 2 0004

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

06 0000 22.6 36.021 24.842

06 0044 22.1 36.801 25.576

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-----	-----	----------

08 0005 25 08N 082 45W 1962 01 25 15 03 06 1 2 0005

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

15 0000 21.2 35.998 25.217

15 0048 20.5 36.571 25.844

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca	Cld	Sea	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-----	-----	----------

08 0006 25 15N 082 55W 1962 01 25 18 09 08 1 2 0006

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

18 0000 22.0 36.037 25.024

18 0056 19.7 36.194 25.769



CRUISE GS 6201

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wd	Cl	sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	----	----	----	----------

08 0007 25 08N 083 04W 1962 01 25 21 09 08 0 2 0007

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

21 0000 22.2 36.144 25.049  
21 0062 19.7 36.194 25.769

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wd	Cl	sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	----	----	----	----------

08 0008 25 00N 083 15W 1962 01 26 01 09 06 1 2 0008

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

01 0000 22.0 36.226 25.168  
01 0064 20.5 36.339 25.667

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wd	Cl	sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	----	----	----	----------

08 0009 25 00N 083 04W 1962 01 26 03 09 04 1 2 0009

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

03 0000 21.7 36.029 25.102  
03 0060 19.6 36.251 25.839

CRUISE GS 6201

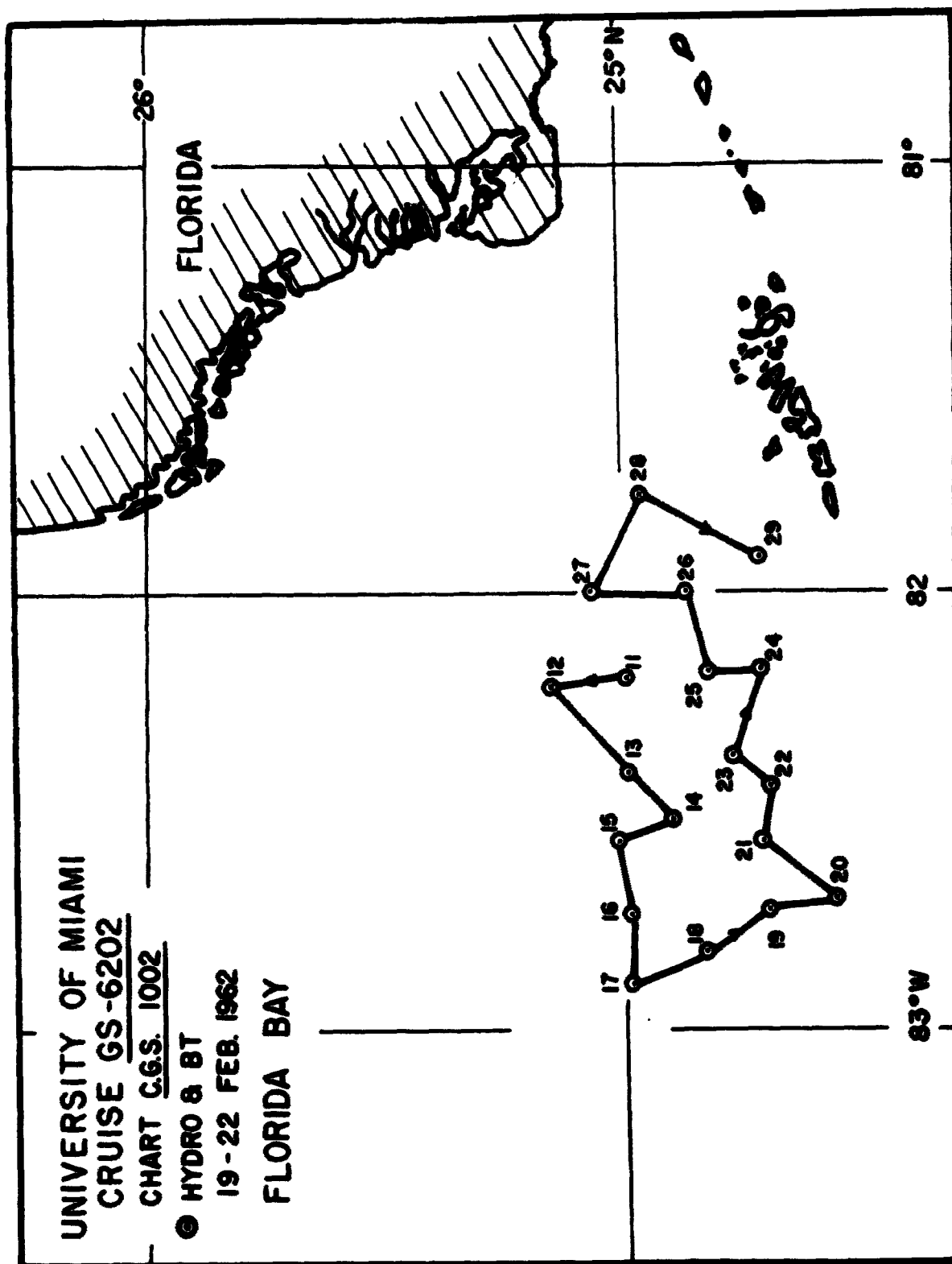
Ship	Sta. No.	Position				Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
08	0010	24	50N	082	50W	1962	01	26	10		09	10		1	2	0010

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
10	0000	22.8	36.301	24.997					
10	0045	20.6	36.598	25.837					

**CRUISE GS 6202**

**February 19-22**

The surface samples for temperature and salinity were taken with a bucket. Bottom samples were taken with a Nansen bottle attached to the bathythermograph wire just above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces.



## CRUISE GS 6202

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

08 0011 25 00N 082 12W 1962 02 19 22 15 09 1 1 0011

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

22 0000 23.4 36.451 24.936 03027

22 0027 21.0 37.330 26.285 01756

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

08 0012 25 10N 082 13W 1962 02 20 01 13 05 2 1 0012

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

01 0000 22.0 36.010 25.004 02963 . . . .

01 0032 20.5 36.078 25.468 02533 . . . .

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

08 0013 25 00N 082 25W 1962 02 20 02 04 03 2 1 0013

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

02 0000 23.1 36.376 24.967

02 0036 21.7 36.461 25.430

CRUISE GS 6202

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wvd	Cld	Sea	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

08 0014 24 54N 082 32W 1962 02 20 05 04 04 3 1 0014

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

05 0000 23.2 36.314 24.891  
05 0033 22.2 36.363 25.215

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wvd	Cld	Sea	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

08 0015 25 02N 082 35W 1962 02 20 16 04 08 7 1 0015

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

16 0000 22.6 36.410 25.137  
16 0044 21.1 36.438 25.579

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wvd	Cld	Sea	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	-----------	------	-----	-----	-----	----------

08 0016 25.00N 082 45W 1962 02 20 18 04 09 2 1 0016

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

18 0000 23.2 36.384 24.944  
18 0050 20.8 36.270 25.533

CRUISE GS 6202

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cld	Sea	BT Slide
08	0017	25 00N 082 55W	1962	02	20	22		04 08		0	2	0017

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
22	0000	23.7	36.335	24.760					
22	0057	20.5	36.413	25.723					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cld	Sea	BT Slide
08	0018	24 50N 082 50W	1962	02	21	01		06 08		1	2	0018

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
01	0000	23.6	36.310	24.771					
01	0050	22.1	36.308	25.202					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cld	Sea	BT Slide
08	0019	24 42N 082 45W	1962	02	21	05		06 07		0	2	0019

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
05	0000	23.2	36.320	24.896					
05	0034	22.5	36.322	25.099					

CRUISE GS 6202

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca	Cld	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	----	----------

08 0020 24 33N 082 43W 1962 02 21 15 0020

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

15 0000 23.6  
15 0025 23.4

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca	Cld	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	----	----------

08 0021 24 43N 082 35W 1962 02 21 18 09 07 1 2 0021

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

18 0000 23.7 36.422 24.826  
18 0033 23.3

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	Wca	Cld	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	-----	-----	----	----------

08 0022 24 41N 082 27W 1962 02 21 20 13 10 1 2 0022

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

20 0000 23.9 36.427 24.771  
20 0026 23.3 36.480 24.988



CRUISE GS 6202

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0023 24 46N 082 23W 1962 02 21 23 13 10 2 2 0023

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

23 0000 23.7 36.440 24.840  
23 0032 22.9 36.475 25.100

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0024 24 42N 082 11W 1962 02 22 02 15 05 1 2 0024

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

02 0000 23.2 36.512 25.041  
02 0024 22.8 36.489 25.139

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0025 24 49N 082 12W 1962 02 22 04 10 0 2 0025

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

04 0000 23.2 36.473 25.011  
04 0030 21.8 36.778 25.643

CRUISE GS 6202

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wcd	Cld	sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-----	----	----------

08 0026 24 52N 082 00W 1962 02 22 14 16 07 1 2 0026

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

14 0000 23.0 36.748 25.278

14 0024 21.9 36.809 25.639

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wcd	Cld	sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-----	----	----------

08 0027 25 04N 082 00W 1962 02 22 17 15 08 1 2 0027

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

17 0000 22.2 36.046 24.975

17 0026 21.1 35.886 25.159

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wcd	Cld	sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	-----	-----	----	----------

08 0028 24 57N 081 46W 1962 02 22 20 17 11 1 2 0028

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

20 0000 22.2 36.012 24.949

20 0021 21.8 36.860 25.706

CRUISE GS 6202

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	---	----------

08 0029 24 42N 081 55W 1962 02 22 24 15 09 1 2 0029

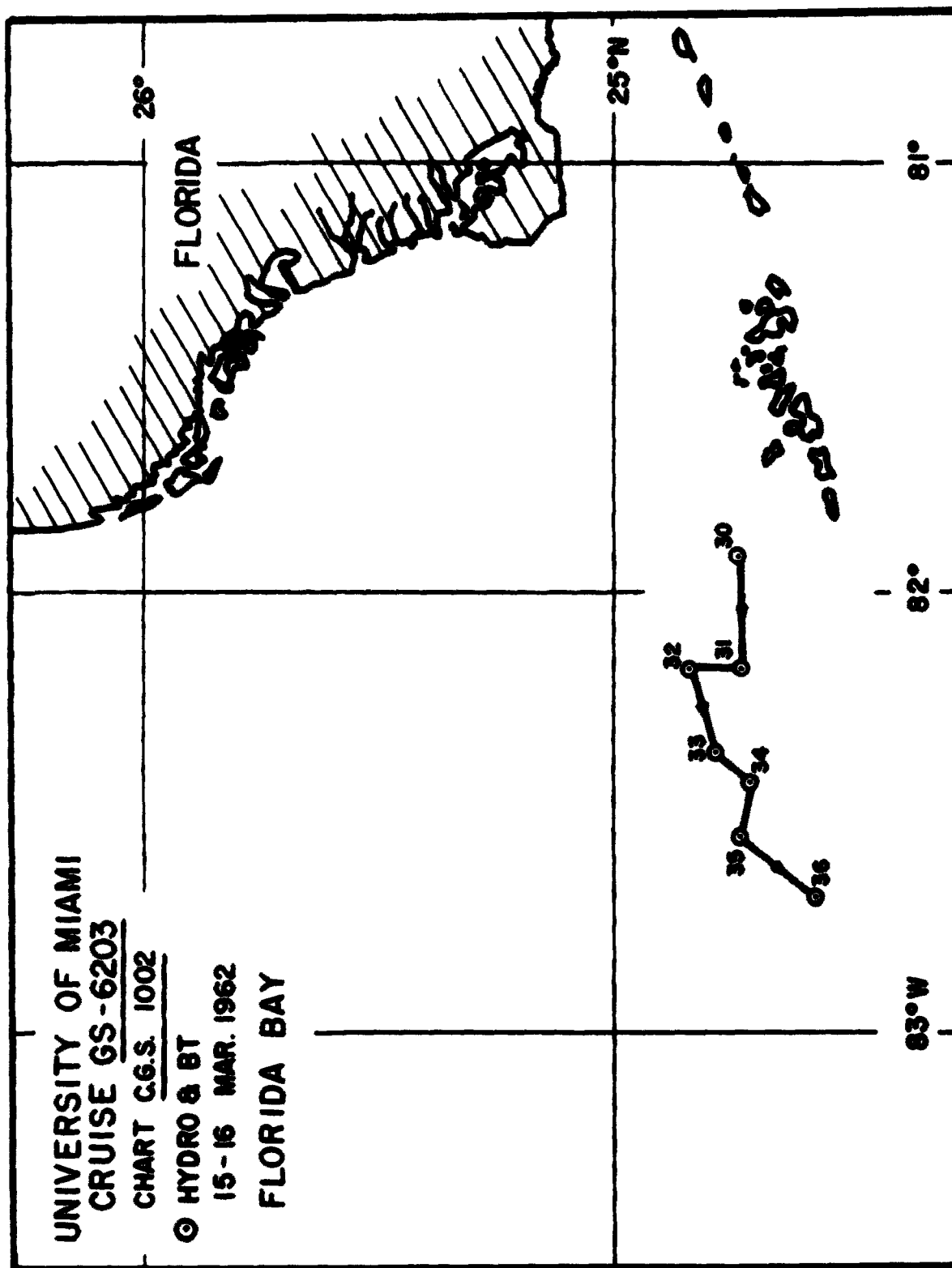
GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	mi/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

24 0000 23.2 36.973 25.390  
24 0016 23.2 36.846 25.294

**CRUISE GS 6203**

**March 15-16**

The surface samples for temperature and salinity were taken with a bucket. Bottom samples were taken with a Nansen bottle attached to the bathythermograph wire just above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces.



**CRUISE GS 6203**

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wind Kts.	Wd	Cl	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	-----------	----	----	---	----------

08 0030 24 42N 081 55W 1962 03 15 19 21 08 1 2 0030

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

19 0000 24.2 36.662 24.859  
19 0015 23.3 36.636 25.106

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wind Kts.	Wd	Cl	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	-----------	----	----	---	----------

08 0031 24 42N 082 11W 1962 03 15 22 21 07 1 2 0031

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

22 0000 24.5 36.580 24.707  
22 0025 22.9 36.555 25.161

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wind Kts.	Wd	Cl	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	-----------	----	----	---	----------

08 0032 24 49N 082 12W 1962 03 16 01 20 08 1 2 0032

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

01 0000 23.9 36.505 24.830  
01 0032 22.3 36.577 25.349

CRUISE GS 6203

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

08 0033 24 46N 082 23W 1962 03 16 04 20 03 6 2 0033

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

04 0000 23.9 36.435 24.777  
04 0032 23.0 36.443 25.047

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

08 0034 24 41N 082 27W 1962 03 16 06 17 04 4 2 0034

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

06 0000 23.9 36.454 24.791  
06 0029 23.1 36.423 25.003

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

08 0035 24 43N 082 35W 1962 03 16 15 34 15 6 2 0035

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

15 0000 23.2 36.441 24.987  
15 0037 23.0 36.392 25.008

CRUISE GS 6203

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cl	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	----	----------

08 0036 24 33N 082 43W 1962 03 16 18 34 18 8 4 0036

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

18 0000 23.3 36.400 24.927

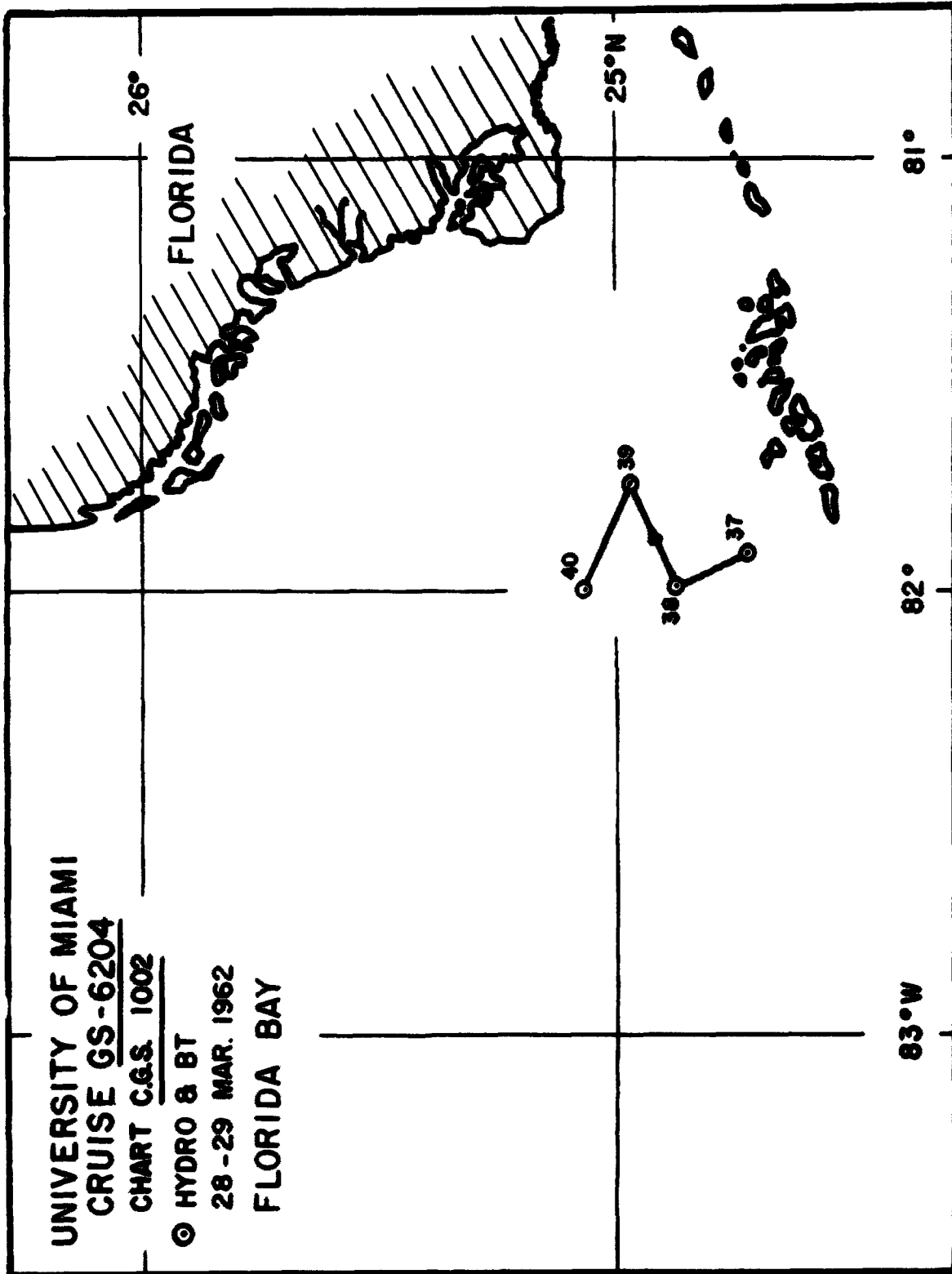
18 0027 23.3 36.371 24.905



**CRUISE GS 6204**

**March 28-29**

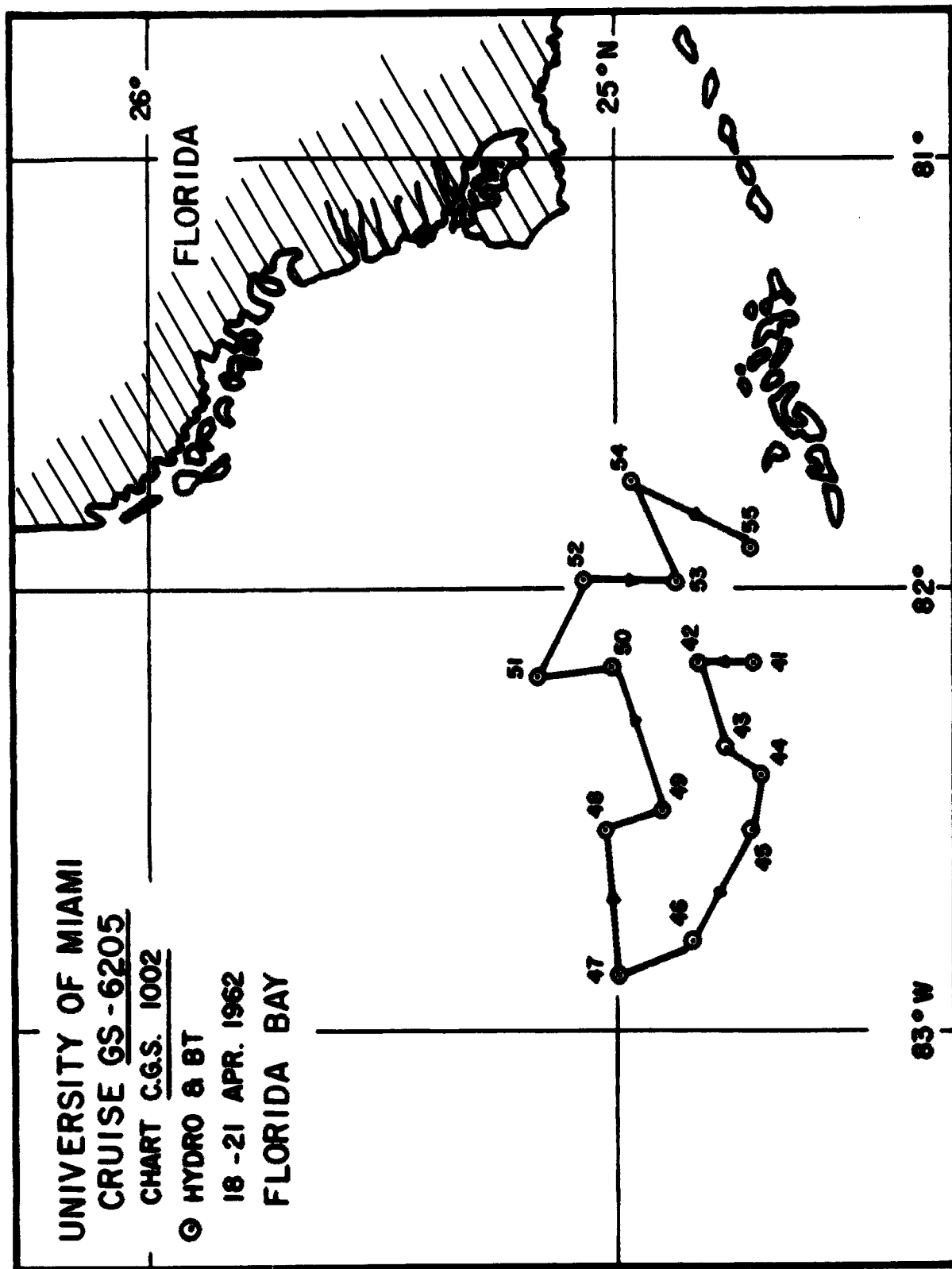
**The bathythermograph traces for this cruise are presented in Section III. Bathythermograph Traces. No stations are listed because the salinity samples from the cruise were lost.**



**CRUISE GS 6205**

**April 18-21**

The surface samples for temperature and salinity were taken with a bucket. Bottom samples were taken with a Nansen bottle attached to the bathythermograph wire just above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces.



CRUISE GS 6205

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wind Kts.	$\sigma_t$	Chl	g	BT Slide
08	0041	24 42N 082 11W	1962	04	18	20		07	10	8	3	0041	

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
20	0000	23.0	36.183	24.850					
20	0024	23.0	36.141	24.818					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wind Kts.	$\sigma_t$	Chl	g	BT Slide
08	0042	24 49N 082 12W	1962	04	18	22		11	10	8	3	0042	

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
22	0000	22.9	36.390	25.036					
22	0030	22.8	36.281	24.982					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wind Kts.	$\sigma_t$	Chl	g	BT Slide
08	0043	24 46N 082 23W	1962	04	19	00		07	08	8	3	0043	

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
00	0000	22.9	36.308	24.973					
00	0032	22.9	36.338	24.996					

CRUISE GS 6205

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W. Sec	Obs.	BT Slide
08	0044	24 41N 082 27W	1962	04	19	02		07 08		4 3	0044

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
02	0000	22.8	36.354	25.037					
02	0032	22.9	36.356	25.010					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W. Sec	Obs.	BT Slide
08	0045	24 43N 082 35W	1962	04	19	05		07 06		3 2	0045

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
05	0000	22.8	36.494	25.143					
05	0033	22.9	36.433	25.068					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W. Sec	Obs.	BT Slide
08	0046	24 50N 082 50W	1962	04	19	14		07 08		2 3	0046

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
14	0000	22.6	36.564	25.254					
14	0019	22.6	36.615	25.293					

CRUISE GS 6205

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wts. Kts.	W	Cld	W	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	-----------	---	-----	---	----------

08 0047 25 00N 082 55W 1962 04 19 18 04 08 3 3 0047

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

18 0000 22.4 36.462 25.234

18 0056 22.2 36.439 25.273

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wts. Kts.	W	Cld	W	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	-----------	---	-----	---	----------

08 0048 25 02N 082 35W 1962 04 19 21 36 10 6 3 0048

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

21 0000 22.4 36.426 25.206

21 0045 22.3 36.451 25.254

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Wts. Kts.	W	Cld	W	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	-----------	---	-----	---	----------

08 0049 24 54N 082 32W 1962 04 20 00 36 08 6 3 0049

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

00 0000 22.2 36.389 25.235

00 0038 22.2 36.422 25.260

**CRUISE GS 6205**

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wd	Ud	Sg	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	----------------	----	----	----	----------

08 0050 25 00N 082 12W 1962 04 20 04 36 08 5 3 0050

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

04 0000 22.3 36.289 25.131

04 0030 22.3 36.326 25.159

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wd	Ud	Sg	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	----------------	----	----	----	----------

08 0051 25 10N 082 13W 1962 04 20 07 34 10 4 3 0051

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

07 0000 22.0 36.243 25.181

07 0031 22.0 36.237 25.176

Ship	Sta. No.	Position ° ' "	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wd	Ud	Sg	BT Slide
------	----------	-------------------	-----	-----	-----	-----	--------	----------------	----	----	----	----------

08 0052 25 04N 082 00W 1962 04 20 16 36 10 6 3 0052

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

16 0000 22.7 36.213 24.959

16 0025 22.6 36.210 24.985



CRUISE GS 6205

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca.	Cld.	Sea	BT Slide
08	0053	24 52N 082 00W	1962	04	20	19		36 06		7	3	0053

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
19	0000	23.5	36.259	24.762					
19	0027	22.9	36.221	24.908					

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca.	Cld.	Sea	BT Slide
08	0054	24 57N 081 46W	1962	04	20	22		36 04		8	3	0054

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
22	0000	23.5	36.164	24.690					
22	0022	22.9	36.114	24.826					

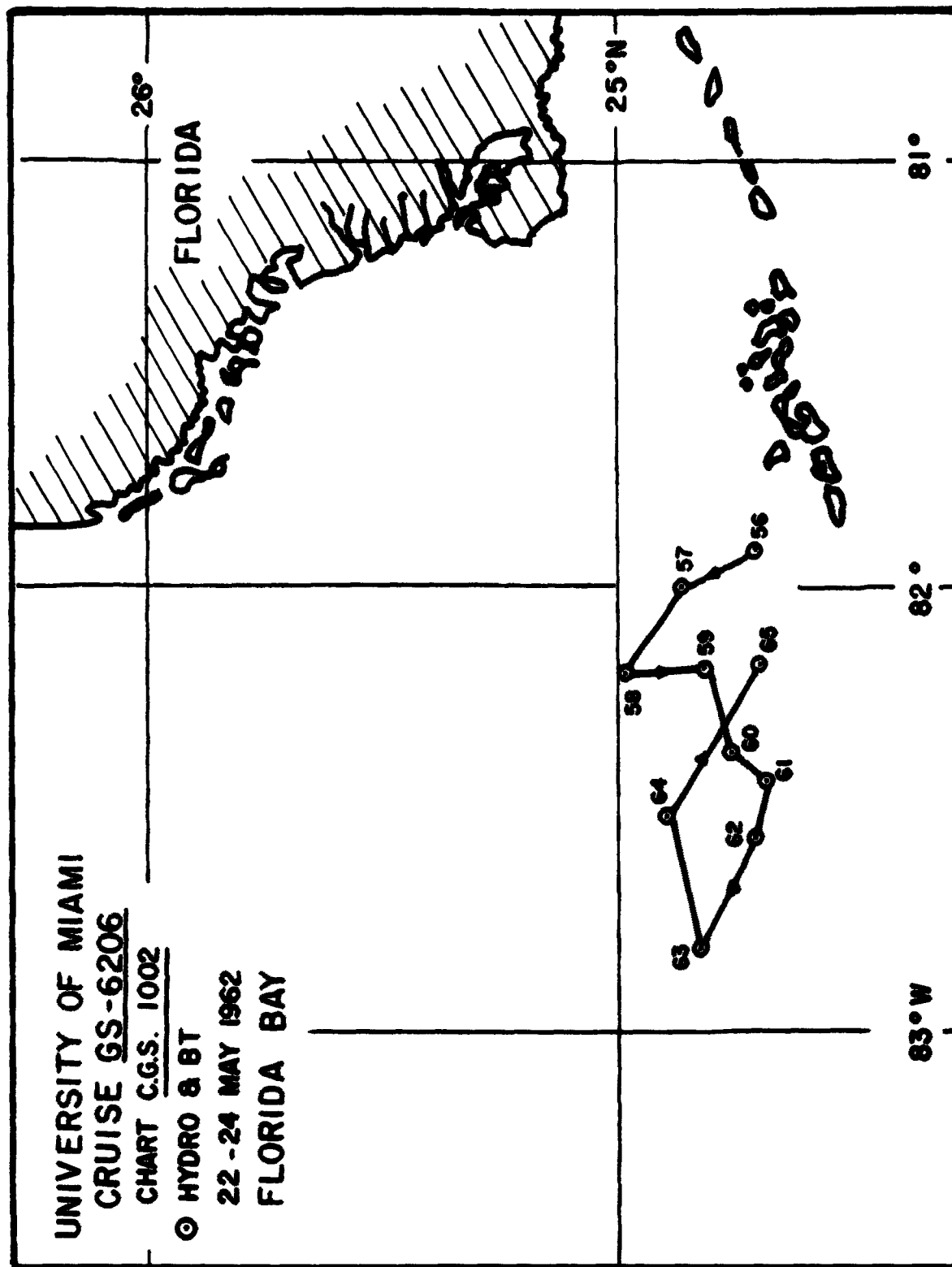
Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	Wca.	Cld.	Sea	BT Slide
08	0055	24 42N 081 55W	1962	04	21	13		04 08		7	3	0055

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
13	0000	23.0	36.055	24.753					
13	0014	23.1	36.048	24.719					

**CRUISE GS 6206**

**May 22-24**

**The surface samples for temperature and salinity were taken with a bucket. Bottom samples were taken with a Nansen bottle attached to the bathythermograph wire just above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces.**



CRUISE GS 6206

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

08 0056 24 42N 081 55W 1962 05 22 17 01 01 0 1 0056

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

17 0000 26.5 36.400 23.952  
17 0015 25.9 36.320 24.081

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

08 0057 24 52N 082 00W 1962 05 22 20 01 01 0 1 0057

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

20 0000 27.1 36.452 23.800  
20 0026 25.2 36.444 24.391

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	Sg	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	----	----------

08 0058 25 00N 082 12W 1962 05 22 23 26 04 0 1 0058

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

23 0000 26.5 36.422 23.969  
23 0030 24.5 36.486 24.636

CRUISE GS 6206

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0059 24 49N 082 12W 1962 05 23 03 31 05 0 1 0059

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

03 0000 26.5 36.400 23.952  
03 0028 25.0 36.355 24.385

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0060 24 46N 082 23W 1962 05 23 05 31 05 0 1 0060

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

05 0000 25.9 36.607 24.297  
05 0030 24.9 36.518 24.539

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cd	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0061 24 41N 082 27W 1962 05 23 14 36 05 0 2 0061

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

14 0000 26.1 36.785 24.369  
14 0024 26.1 36.788 24.371

## CRUISE GS 6206

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

08 0062 24 43N 082 35W 1962 05 23 17 36 05 0 2 0062

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

17 0000 26.8 36.652 24.047

17 0033 25.1 36.573 24.519

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

08 0063 24 50N 082 50W 1962 05 23 21 36 05 0 2 0063

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

21 0000 26.8 36.595 24.004

21 0046 23.8 36.555 24.897

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

08 0064 24 54N 082 32W 1962 05 23 24 32 05 0 2 0064

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

24 0000 26.4 36.463 24.032

24 0038 24.1 36.463 24.739

CRUISE GS 6206

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	g	BT Slide
08	0065	24 42N 082 11W	1962	05	24	05		04	08	1	2	0065	

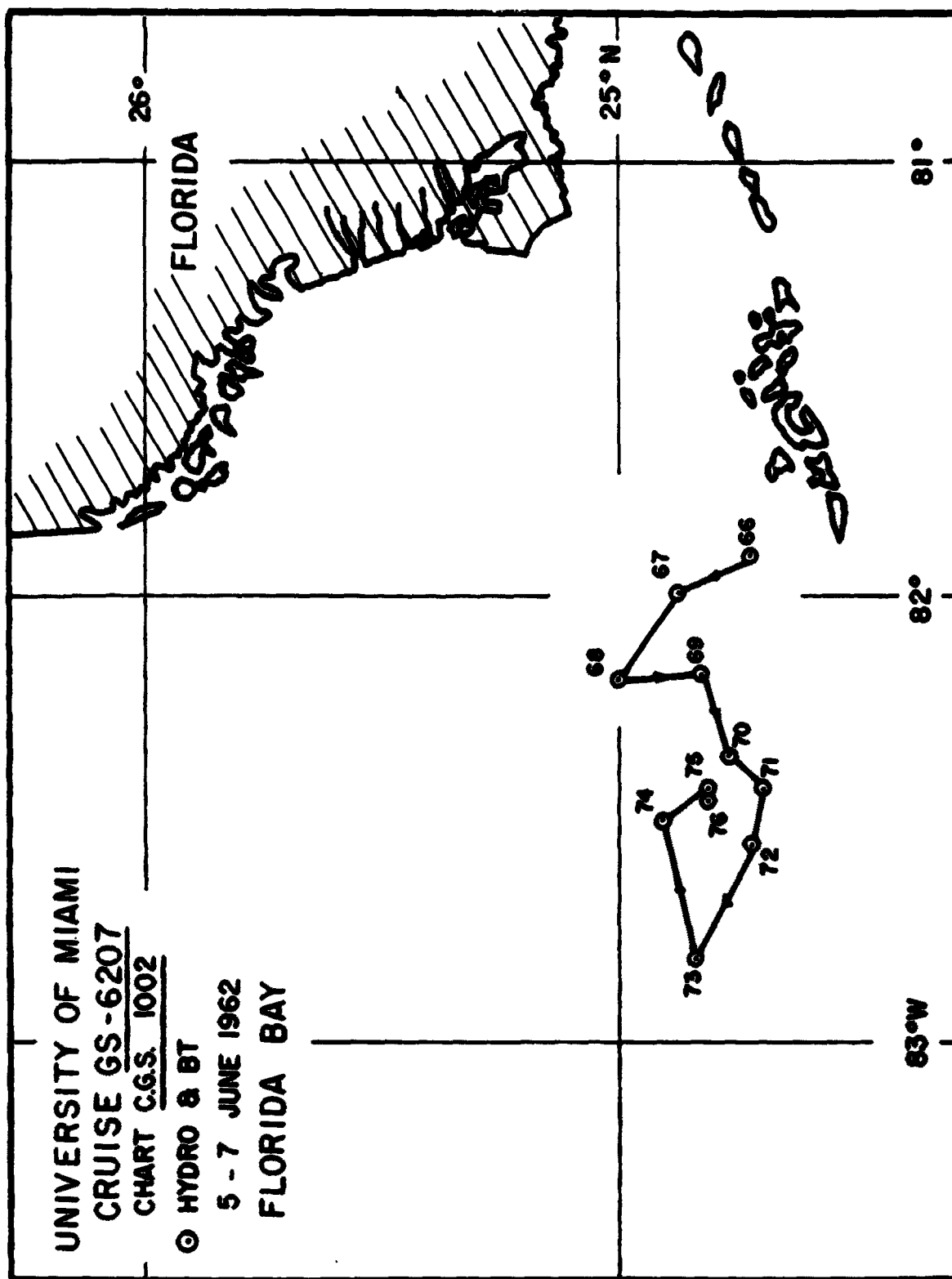
GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\sigma \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
05	0000	26.4	36.410	23.992					
05	0014	25.6	36.410	24.242					

CRUISE GS 6207

June 5-7

The surface samples for temperature and salinity were taken with a bucket. Bottom samples were taken with a Nansen bottle attached to the bathythermograph wire just above the bathythermograph. The corresponding temperatures were read from the bathythermograph traces.





CRUISE GS 6207

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	---	----------

08 0066 24 42N 081 55W 1962 06 05 18 00 00 5 0 0066

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

18 0000 29.5 36.472 23.021  
18 0014 26.8 36.432 23.881

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	---	----------

08 0067 24 52N 082 00W 1962 06 05 21 99 01 3 1 0067

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

21 0000 30.1 36.614 22.923  
21 0024 26.2 36.380 24.032

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Cld	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	-----	---	----------

08 0068 25 00N 082 12W 1962 06 05 24 28 03 3 1 0068

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

24 0000 29.0 36.520 23.226  
24 0028 25.2 36.402 24.359

CRUISE GS 6207

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0069 24 49N 082 12W 1962 06 06 03 31 02 3 1 0069

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

03 0000 28.5 36.580 23.439

03 0026 26.0 36.467 24.160

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0071 24 41N 082 27W 1962 06 06 14 36 01 1 1 0071

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

14 0000 28.3 36.791 23.664

14 0026 27.5 36.740 23.888

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	Ud	g	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	----	---	----------

08 0072 24 43N 082 35W 1962 06 06 16 31 05 2 1 0072

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

16 0000 28.8 36.794 23.499

16 0033 25.7 36.553 24.319

CRUISE GS 6207

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

08 0073 24 50N 082 50W 1962 06 06 20 34 04 3 1 0073

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

20 0000 28.8 36.632 23.378  
20 0048 23.7 36.505 24.889

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

08 0074 24 54N 082 32W 1962 06 06 23 31 06 1 1 0074

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

23 0000 29.0 36.709 23.368  
23 0038 25.0 36.524 24.513

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir. Kts.	W	Cd	S	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	----------------	---	----	---	----------

08 0075 24 49N 082 27W 1962 06 07 01 34 08 0075

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^4$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu$ g-at/L	T-P $\mu$ g-at/L
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------	------------------

01 0000 28.2 36.686 23.618  
01 0034 25.6 36.539 24.339

CRUISE GS 6207

Ship	Sta. No.	Position	Yr.	Mo.	Day	GMT	Sdg. m	Wind Dir.	Kts.	W	U	BT Slide
------	----------	----------	-----	-----	-----	-----	--------	-----------	------	---	---	----------

08 0076 24 49N 082 28W 1962 06 07 02 34 06 0076

GMT	Depth m	Temp. °C	Sal. ‰	$\sigma_t$	$\Delta\alpha \cdot 10^6$	ml/L	O <sub>2</sub> %	PO <sub>4</sub> -P $\mu\text{g-at/L}$	T-P $\mu\text{g-at/L}$
-----	---------	----------	--------	------------	---------------------------	------	------------------	---------------------------------------	------------------------

02 0000 28.2 36.695 23.624  
02 0034 25.8 36.583 24.311

### III. BATHYTHERMOGRAPH TRACES

The Temperature scale is in degrees C; the Depth scale is in meters.

The following information is recorded with each trace:

Instrument Number and Date of Calibration (day, month, year).

Cruise Number and BT Slide Number: The numbers are consecutive through a year for each vessel separately.

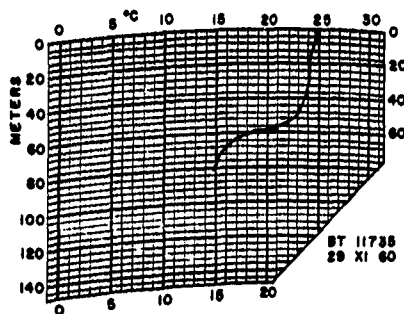
Time and Date of Observation: Time is in hours GMT; date is in order day, month, year.

Position: Latitude and longitude to the nearest minute.

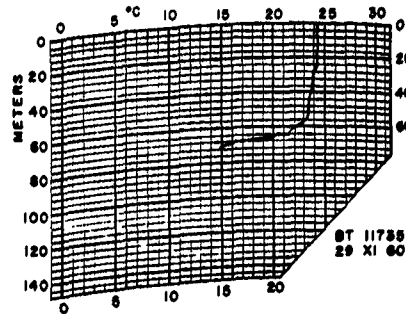
Wind: Direction, true, estimated relative to the ship's head, with the ship stopped, and stated according to WMO Code 23 (see Section IV. LIST OF CODES USED); speed in knots, measured by anemometer.

Surface Temperature: In degrees C, measured by reversing thermometer (at oceanographic stations), by a thermometer contained in a special sampling bucket, or by a thermometer dipped into a sample of sea water drawn in an ordinary bucket.

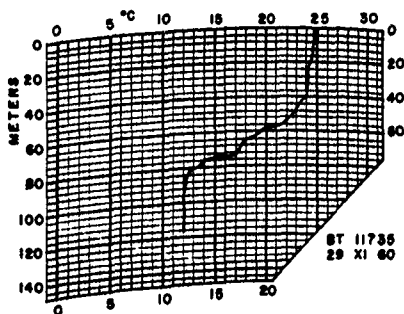
Air Temperature: Dry- and wet-bulb thermometer observations, in degrees C, made with a Bendix Psychron, Model 566-2.



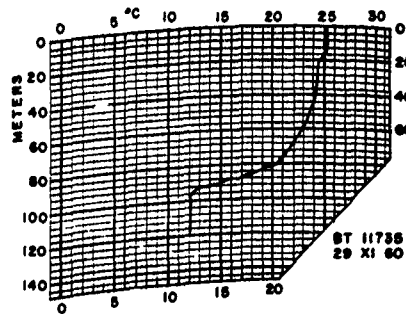
Cruise: G-6204 Slide: 0178 Time: 01 GMT Date: 21.IV.62  
N. Lat: 24°54' W. Long: 80°26' Wind: 14 07  
Sfc. Temp: 24.8° Air Temp: Dry: 24.1° Wet: 18.6°



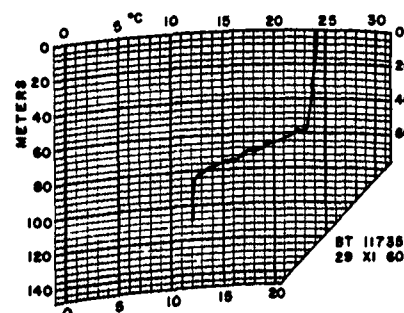
Cruise: G-6204 Slide: 0182 Time: 06 GMT Date: 21.IV.62  
N. Lat: 24°40' W. Long: 80°54' Wind: 13 06  
Sfc. Temp: 24.2° Air Temp: Dry: 25.0° Wet: 19.0°



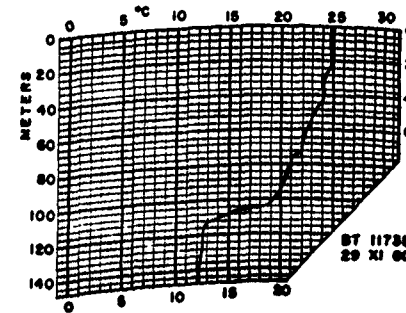
Cruise: G-6204 Slide: 0179 Time: 02 GMT Date: 21.IV.62  
N. Lat: 24°48' W. Long: 80°33' Wind: -- --  
Sfc. Temp: 24.8° Air Temp: Dry: ----- Wet: -----



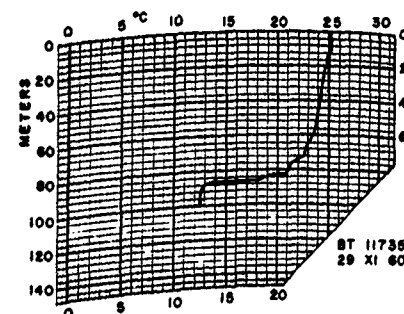
Cruise: G-6204 Slide: 0183 Time: 07 GMT Date: 21.IV.62  
N. Lat: 24°36' W. Long: 80°57' Wind: 17 08  
Sfc. Temp: 25.1° Air Temp: Dry: 23.9° Wet: 19.9°



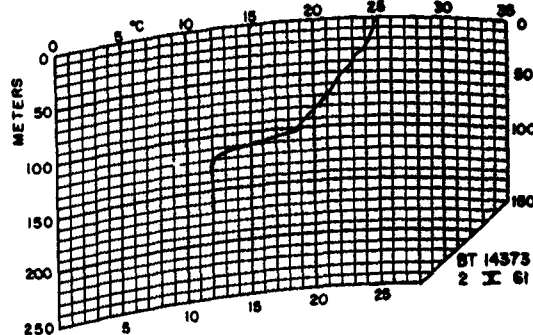
Cruise: G-6204 Slide: 0180 Time: 03 GMT Date: 21.IV.62  
N. Lat: 24°45' W. Long: 80°39' Wind: 12 04  
Sfc. Temp: 24.2° Air Temp: Dry: 24.5° Wet: 18.2°



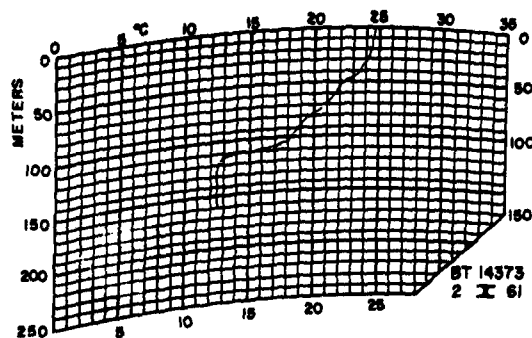
Cruise: G-6204 Slide: 0184 Time: 08 GMT Date: 21.IV.62  
N. Lat: 24°35' W. Long: 81°02' Wind: -- --  
Sfc. Temp: 24.8° Air Temp: Dry: ----- Wet: -----



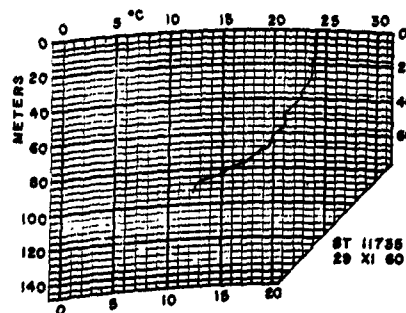
Cruise: G-6204 Slide: 0181 Time: 05 GMT Date: 21.IV.62  
N. Lat: 24°42' W. Long: 80°46' Wind: 13 08  
Sfc. Temp: 25.1° Air Temp: Dry: ----- Wet: -----



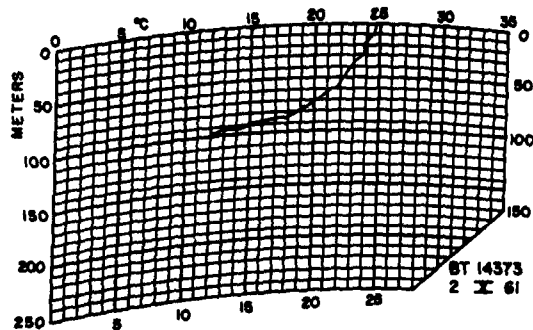
Cruise: G-6204 Slide: 0185 Time: 10 GMT Date: 21.IV.62  
N. Lat: 24°33' W. Long: 81°10' Wind: 15 16  
Sfc. Temp: 24.7° Air Temp: Dry: 24.4° Wet: 21.2°



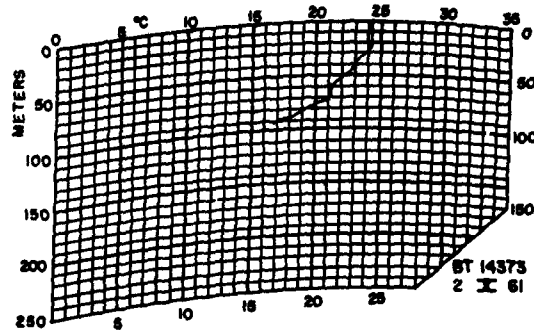
Cruise: G-6204 Slide: 0186 Time: 11 GMT Date: 21.IV.62  
N. Lat: 24°30' W. Long: 81°17' Wind: 04 15  
Sfc. Temp: 24.7° Air Temp: Dry: ----- Wet: -----



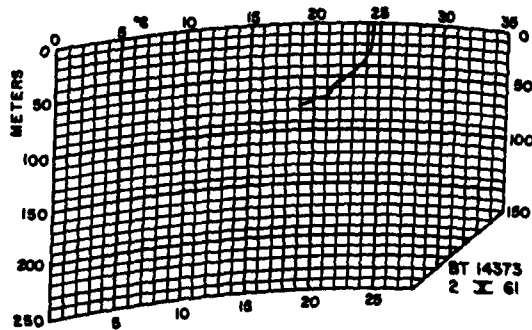
Cruise: G-6204 Slide: 0190 Time: 16 GMT Date: 21.IV.62  
N. Lat: 24°27' W. Long: 81°41' Wind: -- --  
Sfc. Temp: 24.1° Air Temp: Dry: ----- Wet: -----



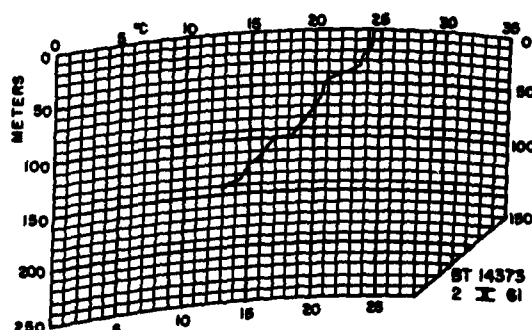
Cruise: G-6204 Slide: 0187 Time: 13 GMT Date: 21.IV.62  
N. Lat: 24°31' W. Long: 81°20' Wind: 03 18  
Sfc. Temp: 24.7° Air Temp: Dry: 26.2° Wet: 21.2°



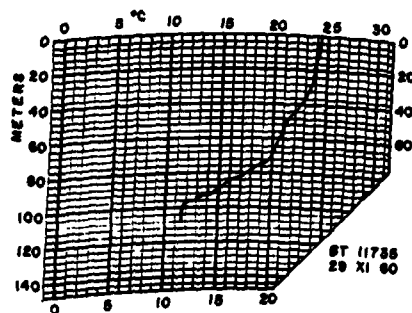
Cruise: G-6204 Slide: 0191 Time: 18 GMT Date: 21.IV.62  
N. Lat: 24°25' W. Long: 81°54' Wind: -- --  
Sfc. Temp: 24.3° Air Temp: Dry: ----- Wet: -----



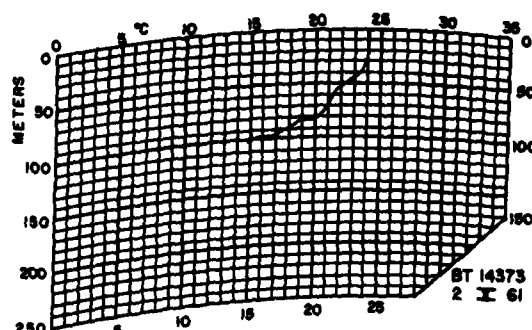
Cruise: G-6204 Slide: 0188 Time: 14 GMT Date: 21.IV.62  
N. Lat: 24°30' W. Long: 81°26' Wind: -- --  
Sfc. Temp: 24.3° Air Temp: Dry: ----- Wet: -----



Cruise: G-6204 Slide: 0192 Time: 20 GMT Date: 21.IV.62  
N. Lat: 24°23' W. Long: 82°00' Wind: 06 20  
Sfc. Temp: 24.4° Air Temp: Dry: 25.1° Wet: 20.0°

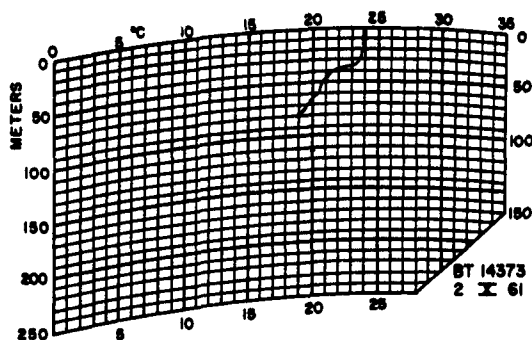


Cruise: G-6204 Slide: 0189 Time: 15 GMT Date: 21.IV.62  
N. Lat: 24°28' W. Long: 81°34' Wind: 04 19  
Sfc. Temp: 24.3° Air Temp: Dry: 24.5° Wet: 20.7°

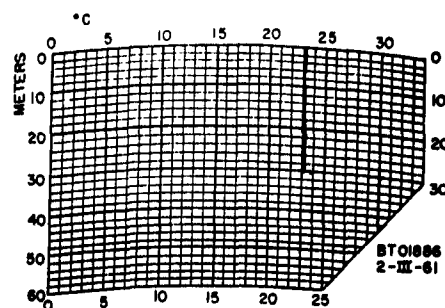


Cruise: G-6204 Slide: 0193 Time: 21 GMT Date: 21.IV.62  
N. Lat: 24°25' W. Long: 82°10' Wind: 11 18  
Sfc. Temp: 24.0° Air Temp: Dry: ----- Wet: -----

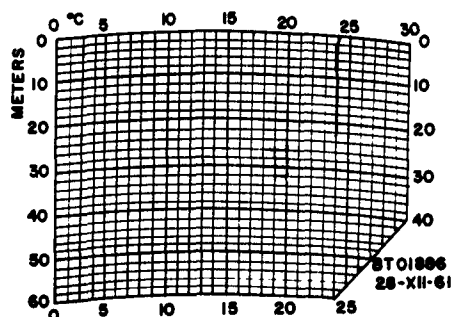




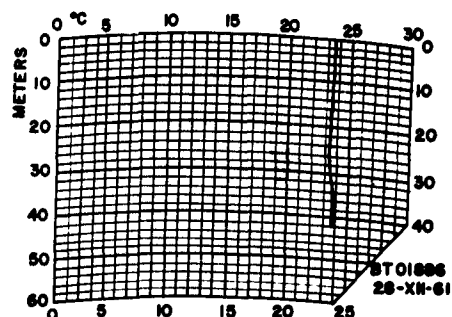
Cruise: G-6204 Slide: 0194 Time: 22 GMT Date: 21.IV.62  
 N. Lat: 24°23' W. Long: 82°19' Wind: 11 19  
 Sfc. Temp: 23.9° Air Temp: Dry: 25.5° Wet: 20.5°



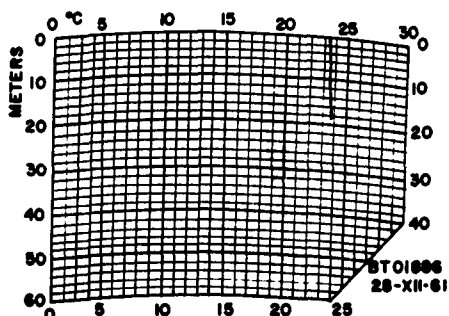
Cruise: G-6204 Slide: 0198 Time: 02 GMT Date: 22.IV.62  
 N. Lat: 24°43' W. Long: 82°44' Wind: 07 20  
 Sfc. Temp: 23.1° Air Temp: Dry: 21.1° Wet: 20.7°



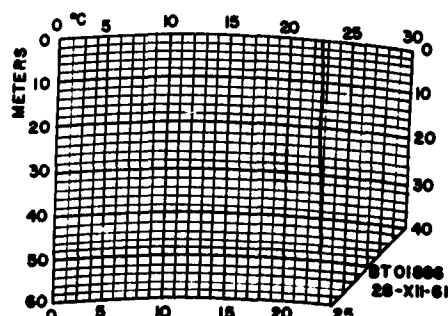
Cruise: G-6204 Slide: 0195 Time: 23 GMT Date: 21.IV.62  
 N. Lat: 24°24' W. Long: 82°26' Wind: 06 18  
 Sfc. Temp: 24.1° Air Temp: Dry: ----- Wet: -----



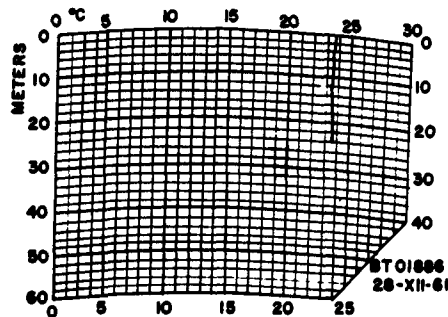
Cruise: G-6204 Slide: 0199 Time: 04 GMT Date: 22.IV.62  
 N. Lat: 24°50' W. Long: 82°49' Wind: 07 18  
 Sfc. Temp: 23.6° Air Temp: Dry: ----- Wet: -----



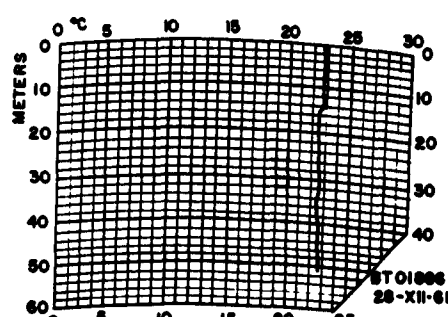
Cruise: G-6204 Slide: 0196 Time: 00 GMT Date: 22.IV.62  
 N. Lat: 24°29' W. Long: 82°33' Wind: 11 19  
 Sfc. Temp: 23.4° Air Temp: Dry: 24.0° Wet: 20.6°



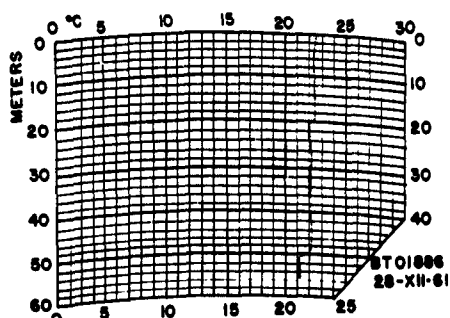
Cruise: G-6204 Slide: 0200 Time: 05 GMT Date: 22.IV.62  
 N. Lat: 24°57' W. Long: 82°53' Wind: 06 22  
 Sfc. Temp: 22.6° Air Temp: Dry: 20.7° Wet: 19.4°



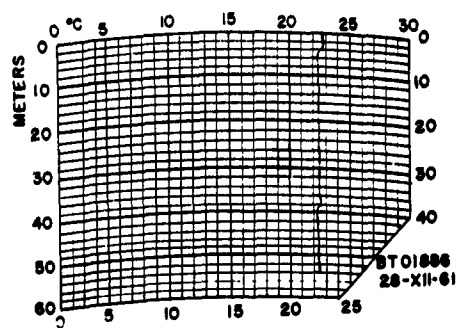
Cruise: G-6204 Slide: 0197 Time: 01 GMT Date: 22.IV.62  
 N. Lat: 24°35' W. Long: 82°41' Wind: 09 18  
 Sfc. Temp: 23.7° Air Temp: Dry: ----- Wet: -----



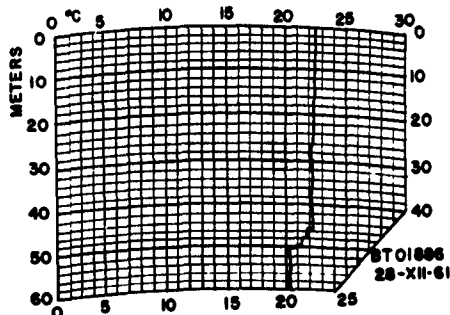
Cruise: G-6204 Slide: 0201 Time: 05 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 82°55' Wind: 06 21  
 Sfc. Temp: 22.7° Air Temp: Dry: ----- Wet: -----



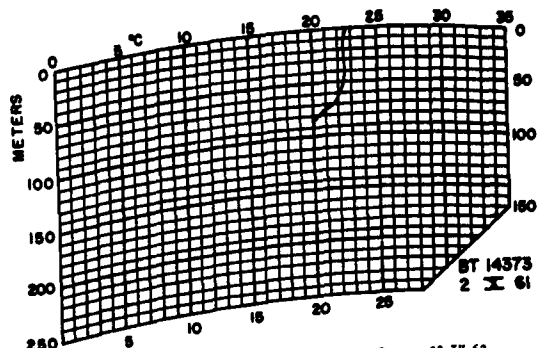
Cruise: G-6204 Slide: 0202 Time: 06 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 83°04' Wind: 07 20  
 Sfc. Temp: 22.5° Air Temp: Dry: 21.0° Wet: 19.0°



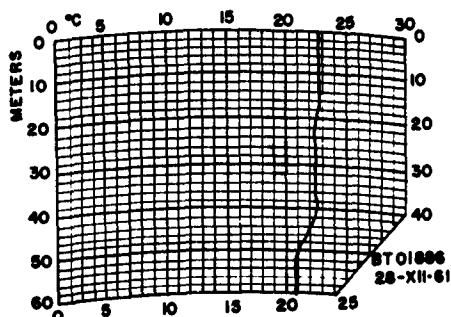
Cruise: G-6204 Slide: 0206 Time: 11 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 83°38' Wind: 12 18  
 Sfc. Temp: 22.7° Air Temp: Dry: 21.3° Wet: 18.0°



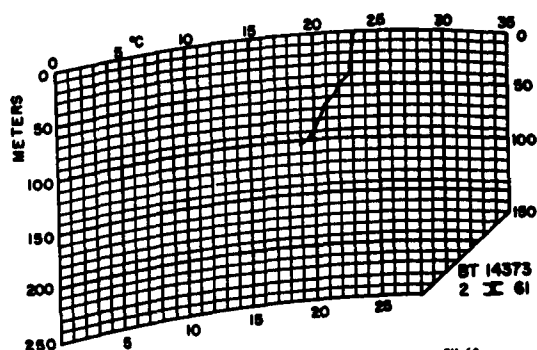
Cruise: G-6204 Slide: 0203 Time: 07 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 83°12' Wind: 06 18  
 Sfc. Temp: 22.5° Air Temp: Dry: ---- Wet: ----



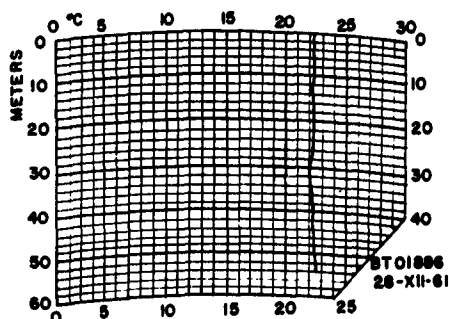
Cruise: G-6204 Slide: 0207 Time: 12 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 83°47' Wind: ----  
 Sfc. Temp: 22.6° Air Temp: Dry: ---- Wet: ----



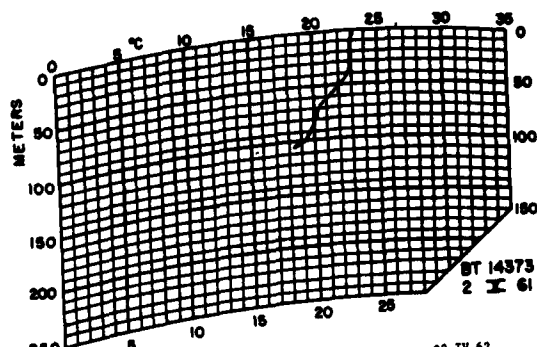
Cruise: G-6204 Slide: 0204 Time: 09 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 83°21' Wind: 14 28  
 Sfc. Temp: 22.7° Air Temp: Dry: 20.9° Wet: 18.4°



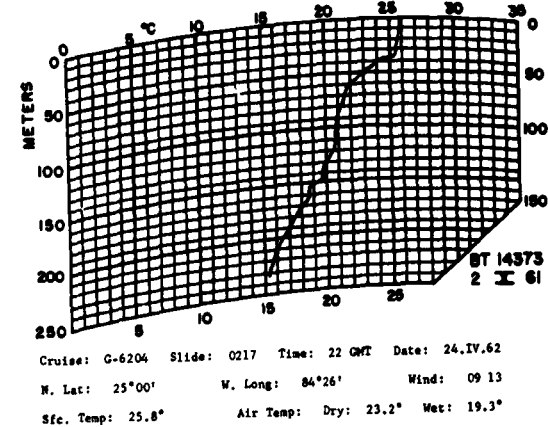
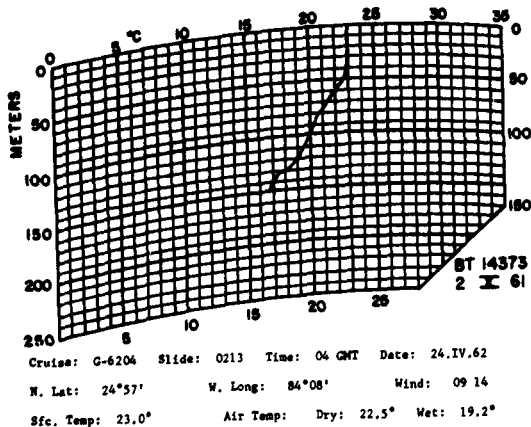
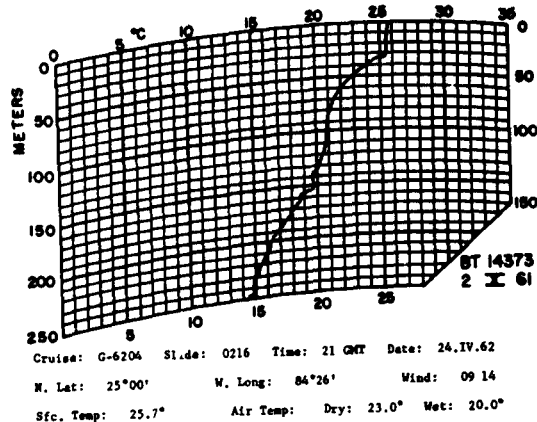
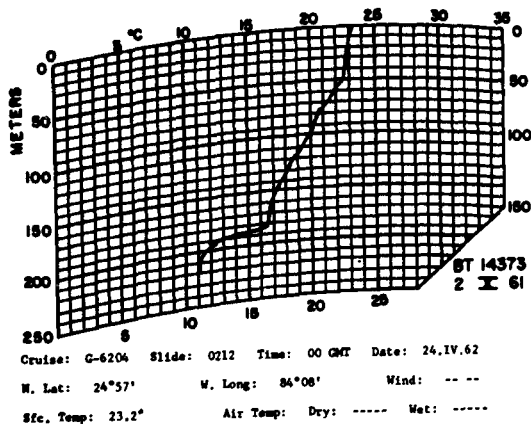
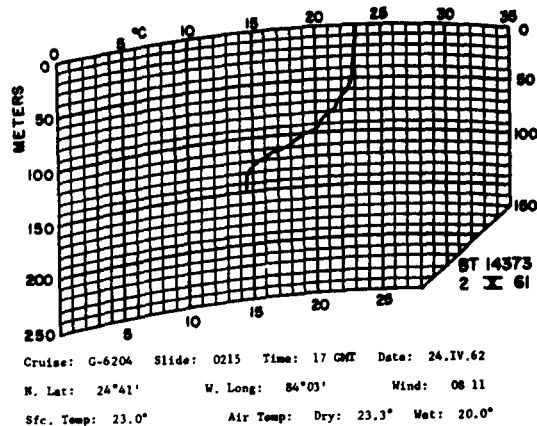
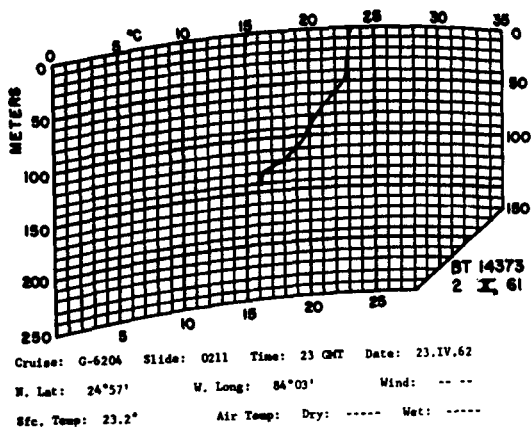
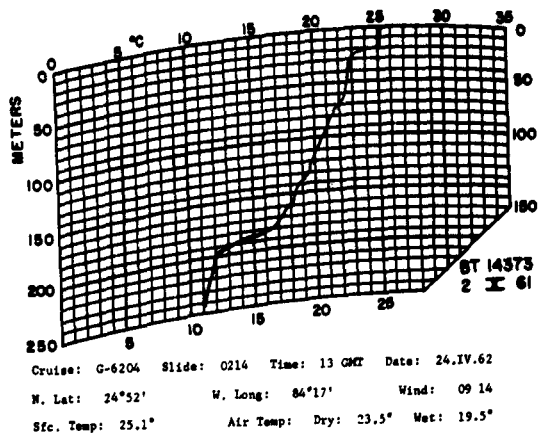
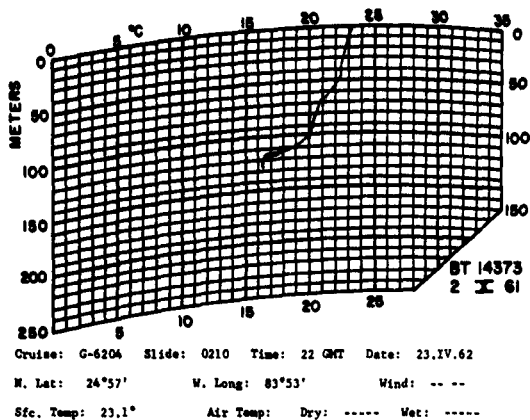
Cruise: G-6204 Slide: 0208 Time: 20 GMT Date: 23.IV.62  
 N. Lat: 24°57' W. Long: 83°43' Wind: -- --  
 Sfc. Temp: 23.1° Air Temp: Dry: ---- Wet: ----

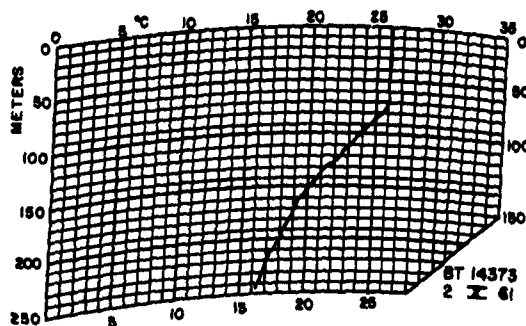


Cruise: G-6204 Slide: 0205 Time: 10 GMT Date: 22.IV.62  
 N. Lat: 25°00' W. Long: 83°30' Wind: 11 22  
 Sfc. Temp: 22.4° Air Temp: Dry: ---- Wet: ----

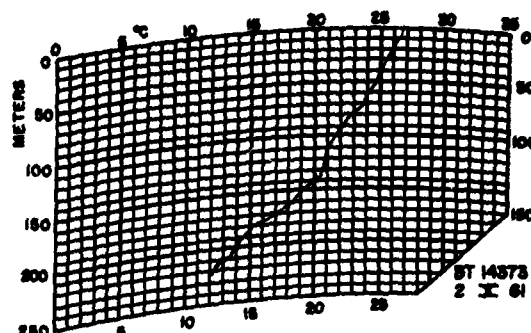


Cruise: G-6204 Slide: 0209 Time: 21 GMT Date: 23.IV.62  
 N. Lat: 24°57' W. Long: 83°43' Wind: 08 19  
 Sfc. Temp: 23.1° Air Temp: Dry: 22.2° Wet: 18.7°

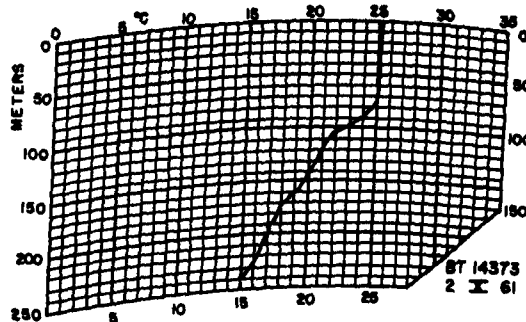




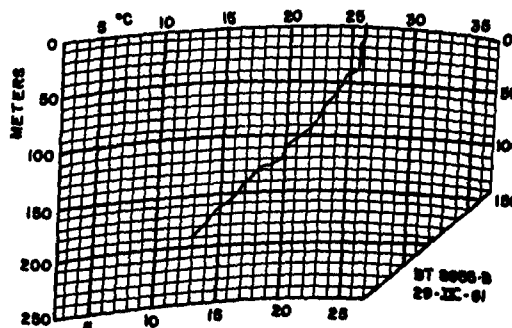
Cruise: G-6204 Slide: 0218 Time: 04 GMT Date: 23.IV.62  
 N. Lat: 24°53' W. Long: 84°39' Wind: 15 09  
 Sfc. Temp: 26.0° Air Temp: Dry: 23.2° Wet: 20.3°



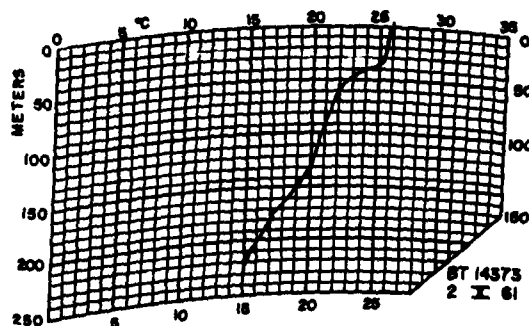
Cruise: G-6207 Slide: 0222 Time: 17 GMT Date: 12.V.62  
 N. Lat: 25°37' W. Long: 79°57' Wind: 04 02  
 Sfc. Temp: 26.8° Air Temp: Dry: 29.0° Wet: 24.1°



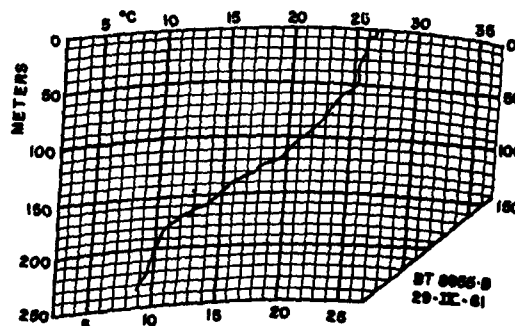
Cruise: G-6204 Slide: 0219 Time: 18 GMT Date: 23.IV.62  
 N. Lat: 24°28' W. Long: 84°29' Wind: 13 13  
 Sfc. Temp: 25.2° Air Temp: Dry: 24.0° Wet: 21.0°



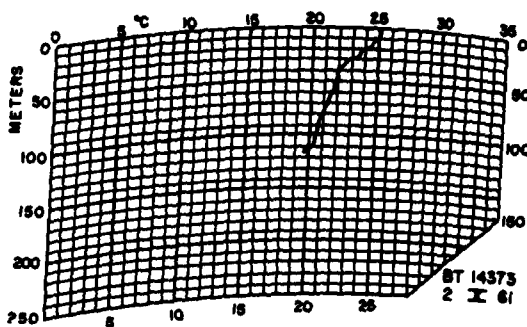
Cruise: G-6208 Slide: 0223 Time: 22 GMT Date: 16.V.62  
 N. Lat: 26°41' W. Long: 79°57' Wind: 02 23  
 Sfc. Temp: 26.1° Air Temp: Dry: 26.3° Wet: 23.3°



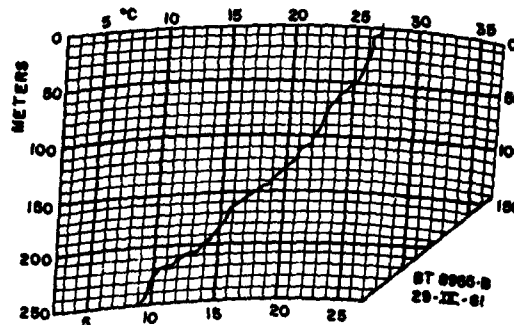
Cruise: G-6204 Slide: 0220 Time: 22 GMT Date: 25.IV.62  
 N. Lat: 24°41' W. Long: 84°00' Wind: 10 06  
 Sfc. Temp: 26.0° Air Temp: Dry: 24.0° Wet: 21.0°



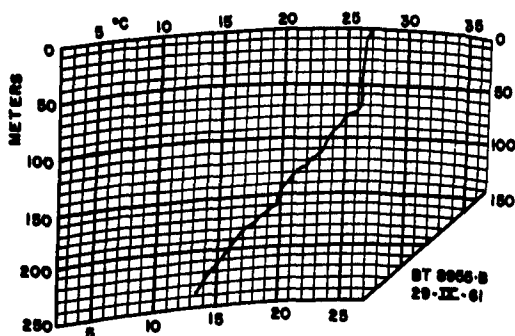
Cruise: G-6209 Slide: 0224 Time: 20 GMT Date: 21.V.62  
 N. Lat: 25°38' W. Long: 80°03' Wind: 11 18  
 Sfc. Temp: 26.3° Air Temp: Dry: 26.6° Wet: 22.3°



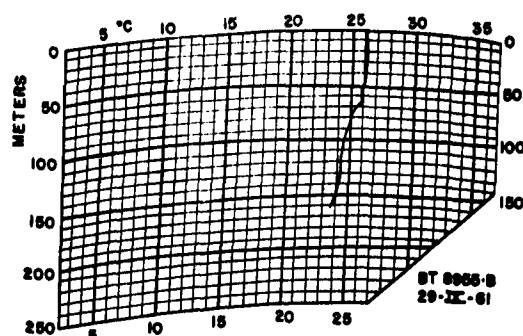
Cruise: G-6204 Slide: 0221 Time: 23 GMT Date: 25.IV.62  
 N. Lat: 24°41' W. Long: 83°50' Wind: 09 11  
 Sfc. Temp: 25.1° Air Temp: Dry: 23.7° Wet: 21.1°



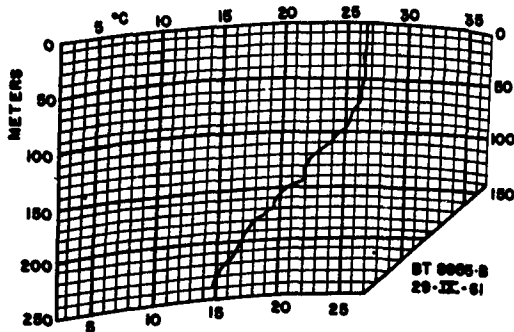
Cruise: G-6209 Slide: 0225 Time: 22 GMT Date: 21.V.62  
 N. Lat: 25°38' W. Long: 79°57' Wind: 14 14  
 Sfc. Temp: 27.0° Air Temp: Dry: 26.5° Wet: 23.0°



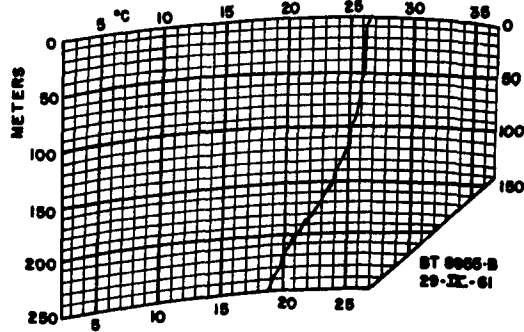
Cruise: G-6209 Slide: 0226 Time: 00 GMT Date: 22.V.62  
 N. Lat: 25°37' W. Long: 79°51' Wind: 19 09  
 Sfc. Temp: 26.8° Air Temp: Dry: 26.0° Wet: 22.6°



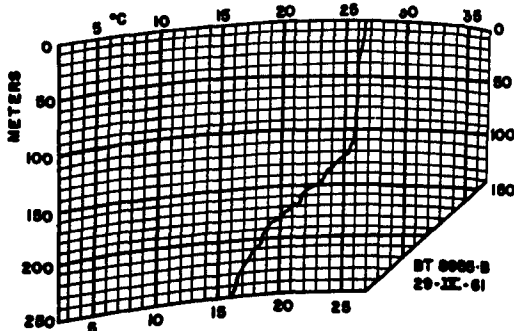
Cruise: G-6209 Slide: 0230 Time: 10 GMT Date: 22.V.62  
 N. Lat: 25°35' W. Long: 79°21' Wind: 25 09  
 Sfc. Temp: 26.2° Air Temp: Dry: 27.0° Wet: 24.0°



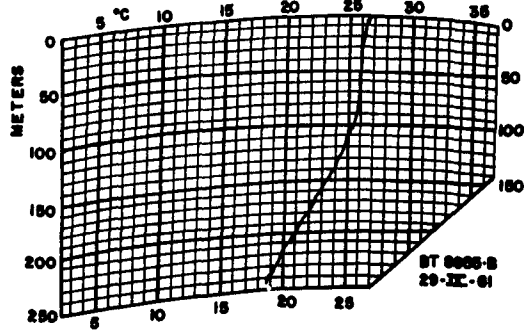
Cruise: G-6209 Slide: 0227 Time: 02 GMT Date: 22.V.62  
 N. Lat: 25°37' W. Long: 79°46' Wind: 27 16  
 Sfc. Temp: 26.6° Air Temp: Dry: 26.8° Wet: 23.1°



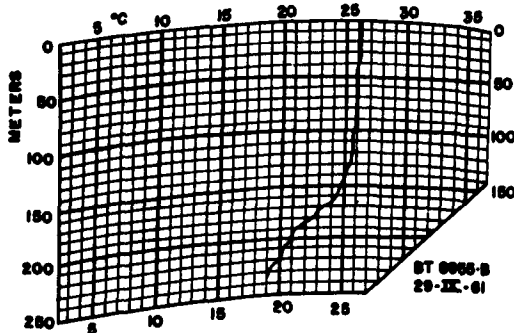
Cruise: G-6209 Slide: 0231 Time: 19 GMT Date: 22.V.62  
 N. Lat: 25°35' W. Long: 79°24' Wind: 36 08  
 Sfc. Temp: 26.5° Air Temp: Dry: 27.6° Wet: 24.0°



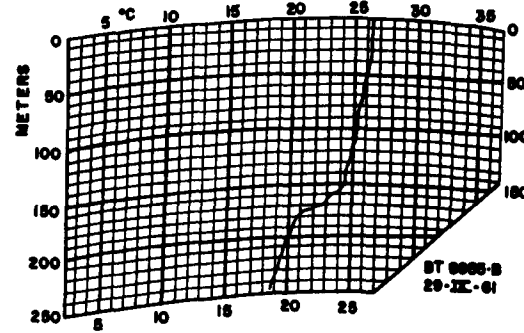
Cruise: G-6209 Slide: 0228 Time: 04 GMT Date: 22.V.62  
 N. Lat: 25°37' W. Long: 79°42' Wind: 24 06  
 Sfc. Temp: 26.5° Air Temp: Dry: 26.6° Wet: 23.5°



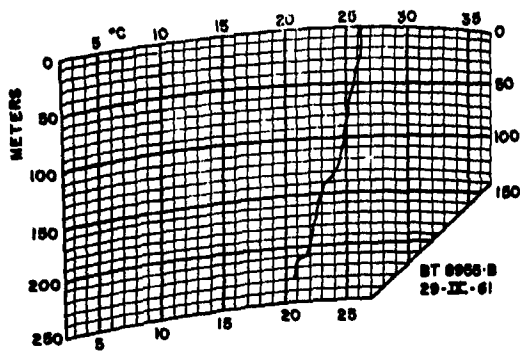
Cruise: G-6209 Slide: 0232 Time: 22 GMT Date: 22.V.62  
 N. Lat: 25°43' W. Long: 79°24' Wind: 21 10  
 Sfc. Temp: 26.6° Air Temp: Dry: 27.2° Wet: 24.5°



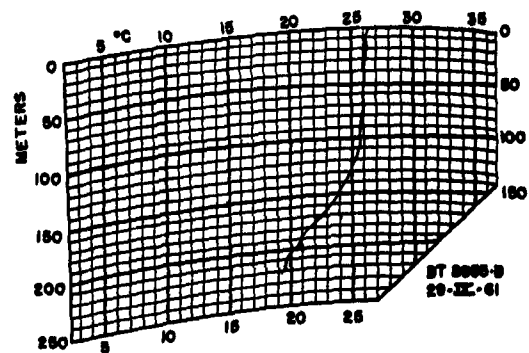
Cruise: G-6209 Slide: 0229 Time: 06 GMT Date: 22.V.62  
 N. Lat: 25°36' W. Long: 79°30' Wind: 23 09  
 Sfc. Temp: 26.2° Air Temp: Dry: 27.0° Wet: 23.5°



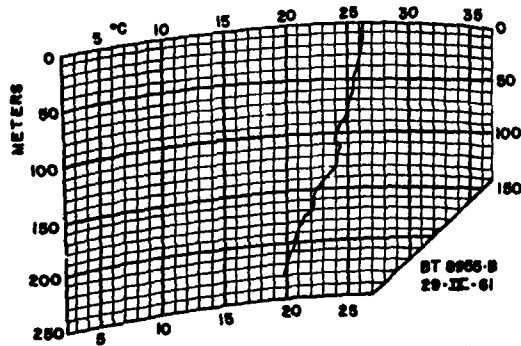
Cruise: G-6209 Slide: 0233 Time: 03 GMT Date: 23.V.62  
 N. Lat: 26°12' W. Long: 79°04' Wind: 19 18  
 Sfc. Temp: 26.4° Air Temp: Dry: 26.6° Wet: 24.9°



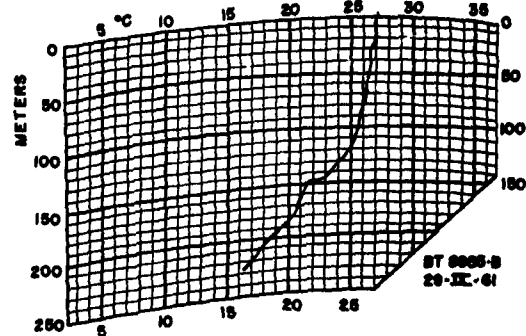
Cruise: G-6209 Slide: 0234 Time: 05 GMT Date: 23.V.62  
 N. Lat: 26°23' W. Long: 79°03' Wind: 23 02  
 Sfc. Temp: 26.3° Air Temp: Dry: 28.0° Wet: 25.2°



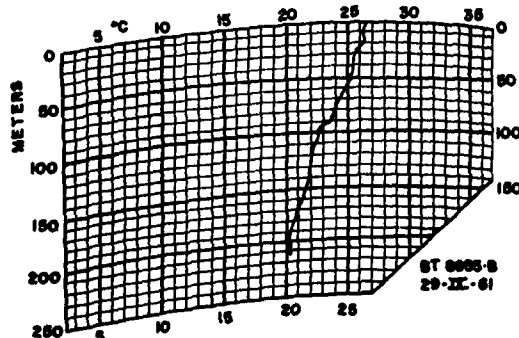
Cruise: G-6209 Slide: 0238 Time: 15 GMT Date: 23.V.62  
 N. Lat: 26°41' W. Long: 79°25' Wind: 03 05  
 Sfc. Temp: 26.4° Air Temp: Dry: 27.8° Wet: 24.0°



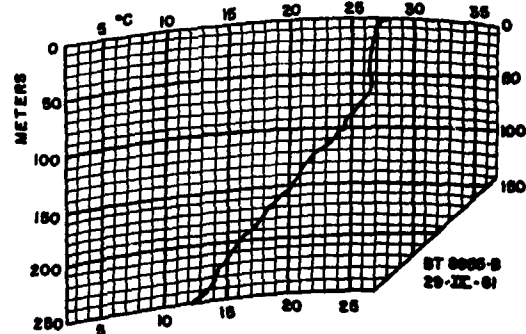
Cruise: G-6209 Slide: 0235 Time: 07 GMT Date: 23.V.62  
 N. Lat: 26°33' W. Long: 79°01' Wind: 27 05  
 Sfc. Temp: 26.3° Air Temp: Dry: 27.1° Wet: 24.2°



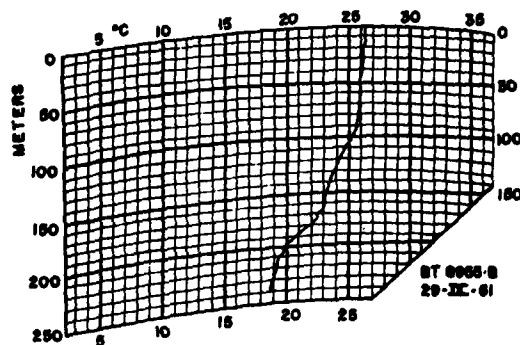
Cruise: G-6209 Slide: 0239 Time: 17 GMT Date: 23.V.62  
 N. Lat: 26°41' W. Long: 79°36' Wind: 29 03  
 Sfc. Temp: 27.1° Air Temp: Dry: 27.4° Wet: 24.5°



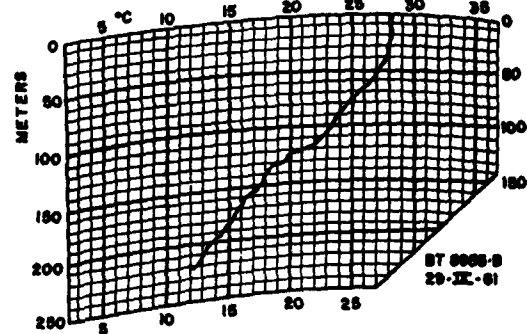
Cruise: G-6209 Slide: 0236 Time: 09 GMT Date: 23.V.62  
 N. Lat: 26°40' W. Long: 79°01' Wind: 31 04  
 Sfc. Temp: 26.4° Air Temp: Dry: 27.4° Wet: 24.0°



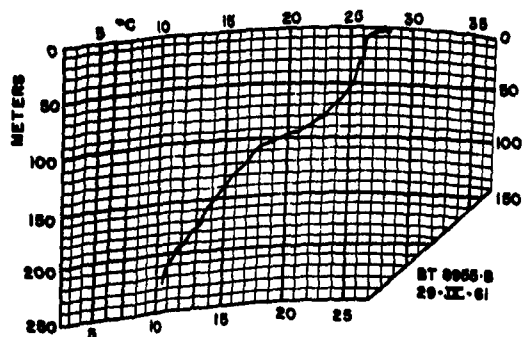
Cruise: G-6209 Slide: 0240 Time: 19 GMT Date: 23.V.62  
 N. Lat: 26°41' W. Long: 79°45' Wind: 00 00  
 Sfc. Temp: 27.8° Air Temp: Dry: 29.0° Wet: 25.2°



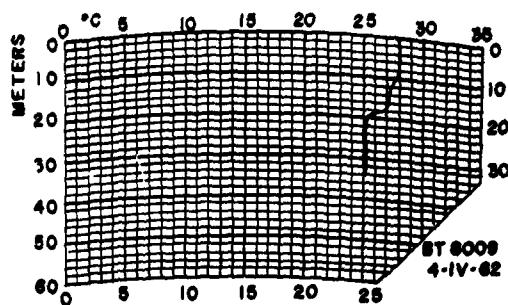
Cruise: G-6209 Slide: 0237 Time: 12 GMT Date: 23.V.62  
 N. Lat: 26°41' W. Long: 79°13' Wind: 01 05  
 Sfc. Temp: 26.4° Air Temp: Dry: 27.7° Wet: 24.2°



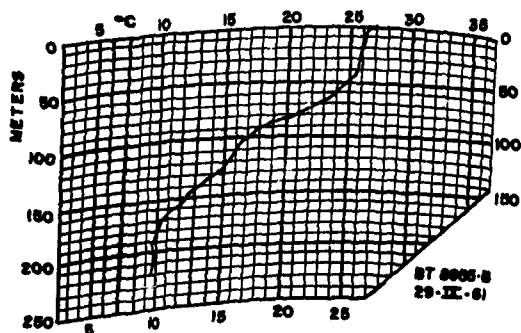
Cruise: G-6209 Slide: 0241 Time: 21 GMT Date: 23.V.62  
 N. Lat: 26°41' W. Long: 79°51' Wind: 01 07  
 Sfc. Temp: 28.2° Air Temp: Dry: 28.5° Wet: 24.7°



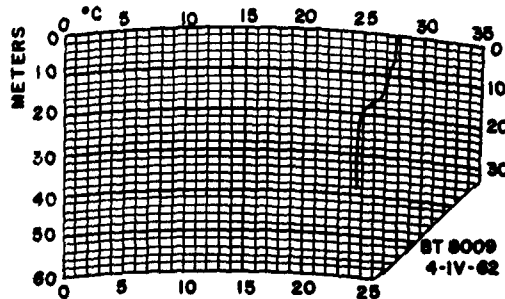
Cruise: G-6209 Slide: 0242 Time: 22 GMT Date: 23.V.62  
 N. Lat: 26°41' W. Long: 79°51' Wind: 00 00  
 Sfc. Temp: 28.2° Air Temp: Dry: 28.9° Wet: 25.2°



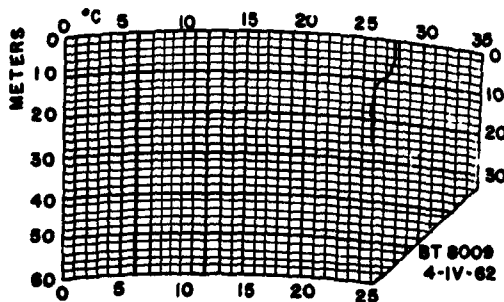
Cruise: G-6213 Slide: 0249 Time: 08 GMT Date: 6.VI.62  
 N. Lat: 24°51' W. Long: 82°30' Wind: 31 02  
 Sfc. Temp: 28.0° Air Temp: Dry: 27.1° Wet: 23.8°



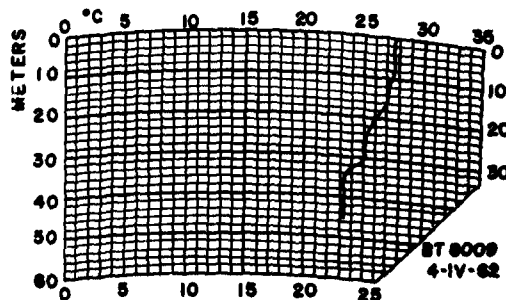
Cruise: G-6209 Slide: 0243 Time: 00 GMT Date: 24.V.62  
 N. Lat: 26°41' W. Long: 79°57' Wind: 10 02  
 Sfc. Temp: 27.1° Air Temp: Dry: 28.2° Wet: 24.5°



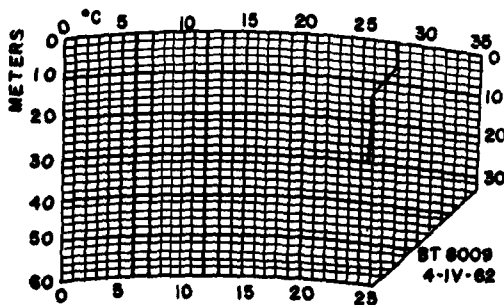
Cruise: G-6213 Slide: 0250 Time: 09 GMT Date: 6.VI.62  
 N. Lat: 24°53' W. Long: 82°36' Wind: 28 03  
 Sfc. Temp: 27.8° Air Temp: Dry: ----- Wet: -----



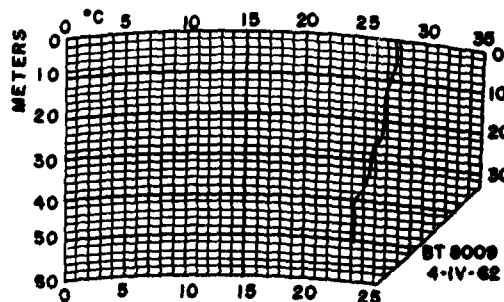
Cruise: G-6213 Slide: 0247 Time: 06 GMT Date: 6.VI.62  
 N. Lat: 24°47' W. Long: 82°18' Wind: 01 03  
 Sfc. Temp: 27.6° Air Temp: Dry: 27.9° Wet: 24.9°



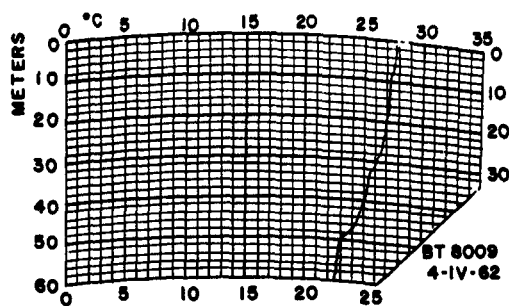
Cruise: G-6213 Slide: 0251 Time: 11 GMT Date: 6.VI.62  
 N. Lat: 24°57' W. Long: 82°46' Wind: 27 02  
 Sfc. Temp: 27.7° Air Temp: Dry: 27.1° Wet: 24.2°



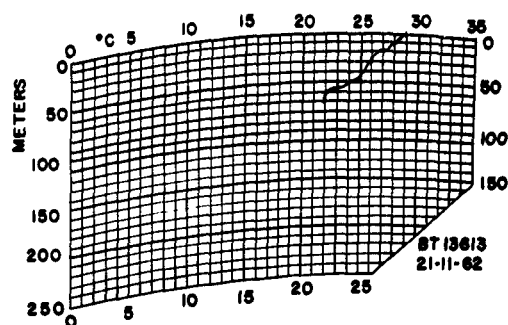
Cruise: G-6213 Slide: 0248 Time: 07 GMT Date: 6.VI.62  
 N. Lat: 24°49' W. Long: 82°24' Wind: 29 05  
 Sfc. Temp: 27.9° Air Temp: Dry: ----- Wet: -----



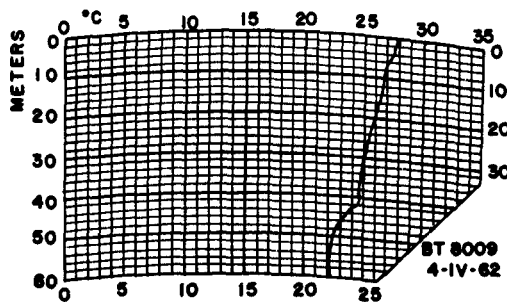
Cruise: G-6213 Slide: 0252 Time: 12 GMT Date: 6.VI.62  
 N. Lat: 24°59' W. Long: 82°53' Wind: 27 02  
 Sfc. Temp: 27.8° Air Temp: Dry: ----- Wet: -----



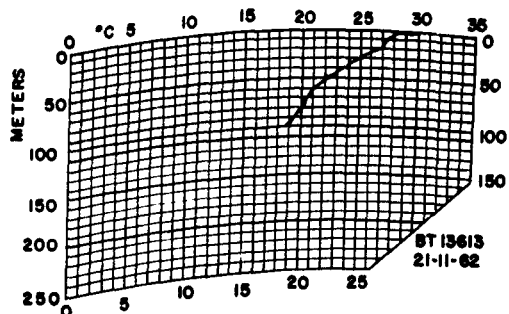
Cruise: G-6213 Slide: 0253 Time: 13 GMT Date: 6.VI.62  
 N. Lat: 25°00' W. Long: 83°05' Wind: 27 02  
 Sfc. Temp: 27.9° Air Temp: Dry: 27.1° Wet: 23.8°



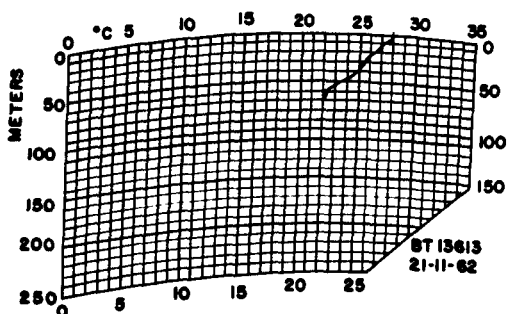
Cruise: G-6213 Slide: 0257 Time: 17 GMT Date: 6.VI.62  
 N. Lat: 24°53' W. Long: 83°37' Wind: 27 02  
 Sfc. Temp: 29.0° Air Temp: Dry: 27.3° Wet: 23.8°



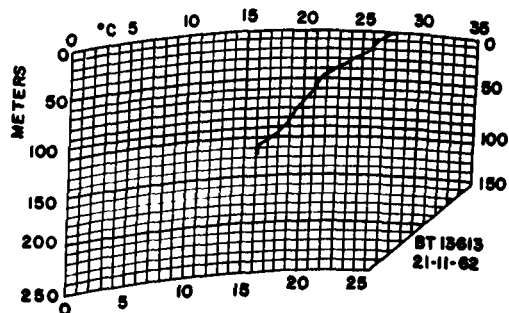
Cruise: G-6213 Slide: 0254 Time: 14 GMT Date: 6.VI.62  
 N. Lat: 25°00' W. Long: 83°19' Wind: 27 02  
 Sfc. Temp: 27.8° Air Temp: Dry: ---- Wet: ----



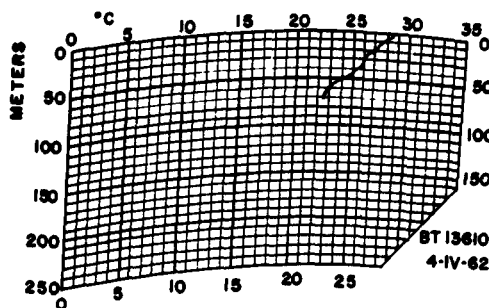
Cruise: G-6213 Slide: 0258 Time: 19 GMT Date: 6.VI.62  
 N. Lat: 25°05' W. Long: 83°44' Wind: 27 02  
 Sfc. Temp: 29.8° Air Temp: Dry: ---- Wet: ----



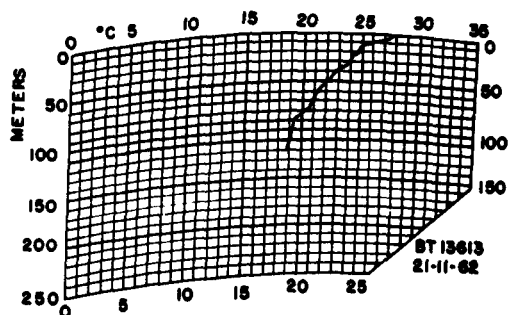
Cruise: G-6213 Slide: 0255 Time: 16 GMT Date: 6.VI.62  
 N. Lat: 25°03' W. Long: 83°24' Wind: 27 02  
 Sfc. Temp: 28.0° Air Temp: Dry: 27.8° Wet: 24.0°



Cruise: G-6213 Slide: 0259 Time: 21 GMT Date: 6.VI.62  
 N. Lat: 25°00' W. Long: 83°53' Wind: -- --  
 Sfc. Temp: 27.8° Air Temp: Dry: ---- Wet: ----

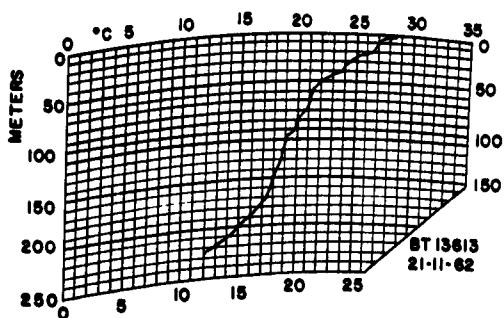


Cruise: G-6213 Slide: 0256 Time: 16 GMT Date: 6.VI.62  
 N. Lat: 25°03' W. Long: 83°24' Wind: 27 02  
 Sfc. Temp: 28.5° Air Temp: Dry: 27.8° Wet: 24.0°

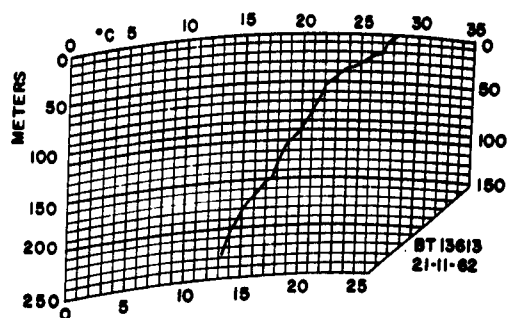


Cruise: G-6213 Slide: 0260 Time: 23 GMT Date: 6.VI.62  
 N. Lat: 25°00' W. Long: 84°03' Wind: -- --  
 Sfc. Temp: 27.7° Air Temp: Dry: ---- Wet: ----

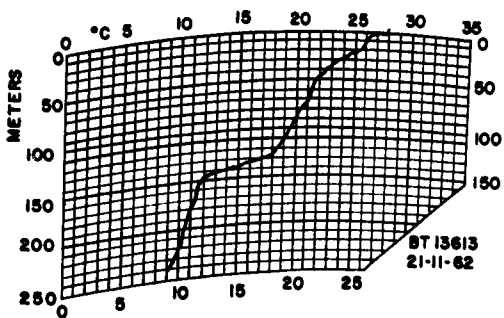




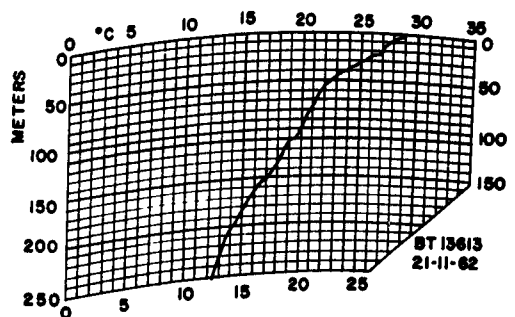
Cruise: G-6213 Slide: 0261 Time: 23 GMT Date: 6.VI.62  
N. Lat: 24°56' W. Long: 84°03' Wind: -- --  
Sfc. Temp: 28.5° Air Temp: Dry: ----- Wet: -----



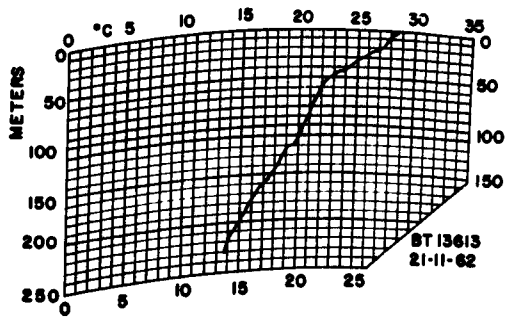
Cruise: G-6213 Slide: 0265 Time: 17 GMT Date: 7.VI.62  
N. Lat: 24°32' W. Long: 83°51' Wind: 99 01  
Sfc. Temp: 28.3° Air Temp: Dry: 30.2° Wet: 22.8°



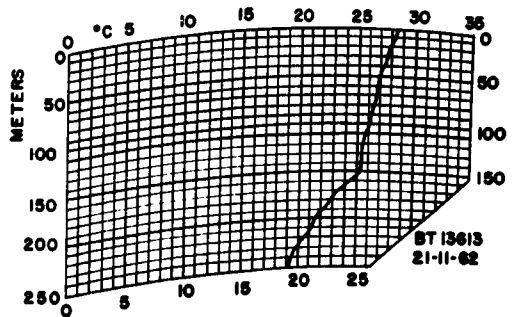
Cruise: G-6213 Slide: 0262 Time: 01 GMT Date: 7.VI.62  
N. Lat: 24°56' W. Long: 84°03' Wind: -- --  
Sfc. Temp: 28.0° Air Temp: Dry: ----- Wet: -----



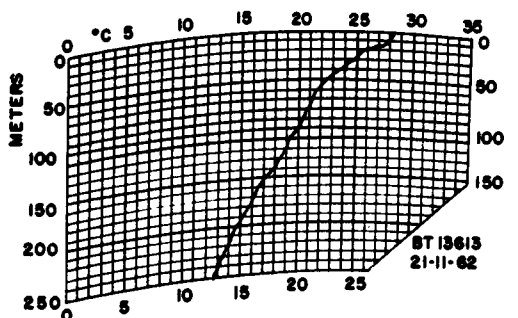
Cruise: G-6213 Slide: 0266 Time: 23 GMT Date: 7.VI.62  
N. Lat: 24°42' W. Long: 83°43' Wind: 35 03  
Sfc. Temp: 28.9° Air Temp: Dry: 28.1° Wet: 25.0°



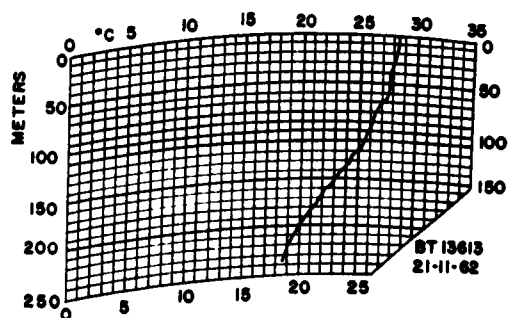
Cruise: G-6213 Slide: 0263 Time: 07 GMT Date: 7.VI.62  
N. Lat: 24°28' W. Long: 84°53' Wind: 20 04  
Sfc. Temp: 28.5° Air Temp: Dry: 27.8° Wet: 24.1°



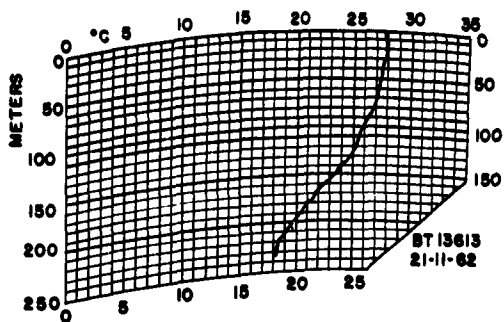
Cruise: G-6213 Slide: 0267 Time: 11 GMT Date: 8.VI.62  
N. Lat: 22°44' W. Long: 84°22' Wind: 14 02  
Sfc. Temp: 28.5° Air Temp: Dry: 26.9° Wet: 24.1°



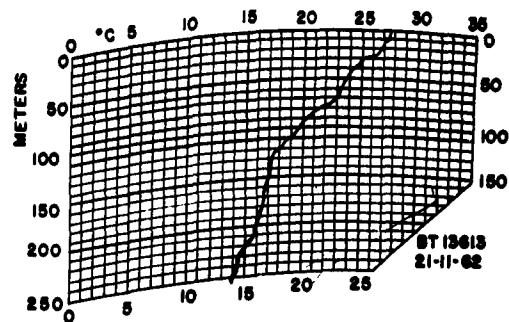
Cruise: G-6213 Slide: 0264 Time: 11 GMT Date: 7.VI.62  
N. Lat: 24°14' W. Long: 83°42' Wind: -- --  
Sfc. Temp: 28.3° Air Temp: Dry: ----- Wet: -----



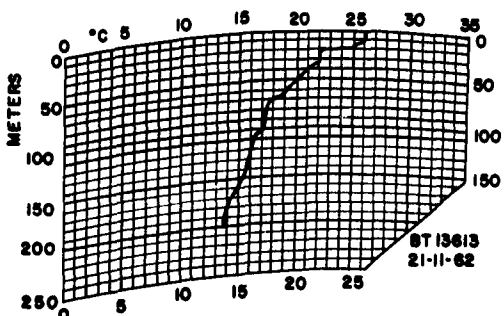
Cruise: G-6213 Slide: 0268 Time: 09 GMT Date: 9.VI.62  
N. Lat: 20°23' W. Long: 85°19' Wind: 13 18  
Sfc. Temp: 28.2° Air Temp: Dry: 28.5° Wet: 25.1°



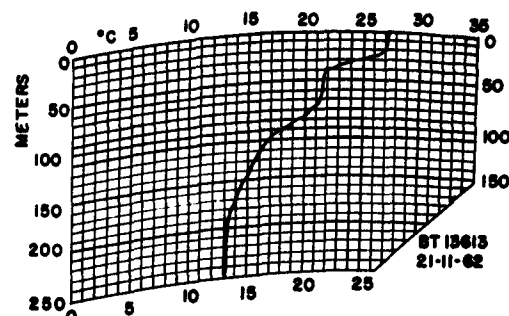
Cruise: G-6213 Slide: 0269 Time: 15 GMT Date: 9.VI.62  
 N. Lat: 20°37' W. Long: 85°23' Wind: 11 20  
 Sfc. Temp: 27.6° Air Temp: Dry: 28.5° Wet: 25.5°



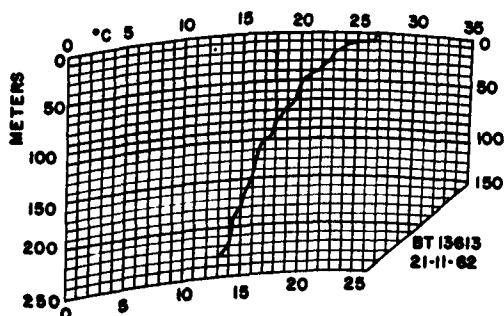
Cruise: G-6213 Slide: 0273 Time: 23 GMT Date: 10.VI.62  
 N. Lat: 21°50' W. Long: 86°25' Wind: 08 16  
 Sfc. Temp: 27.7° Air Temp: Dry: 27.4° Wet: 23.5°



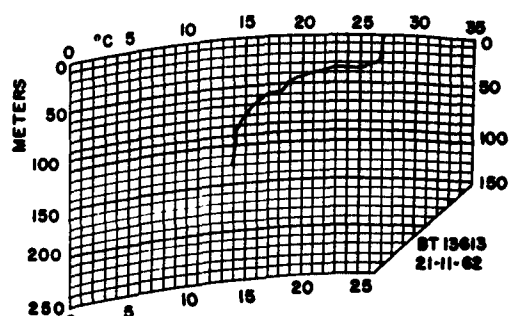
Cruise: G-6213 Slide: 0270 Time: 11 GMT Date: 10.VI.62  
 N. Lat: 21°55' W. Long: 86°24' Wind: 06 04  
 Sfc. Temp: 26.1° Air Temp: Dry: 26.4° Wet: 24.4°



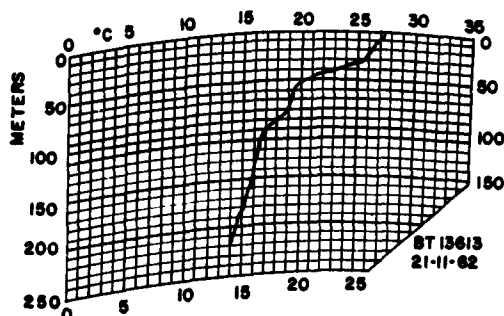
Cruise: G-6213 Slide: 0274 Time: 05 GMT Date: 11.VI.62  
 N. Lat: 21°50' W. Long: 86°25' Wind: 18 08  
 Sfc. Temp: 27.4° Air Temp: Dry: 27.2° Wet: 24.6°



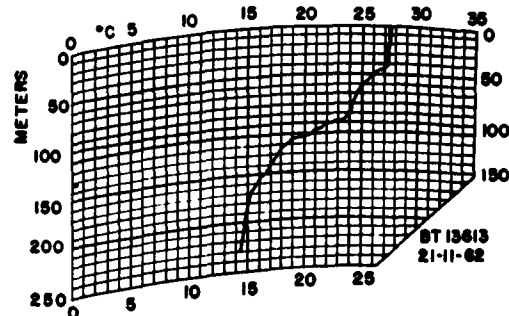
Cruise: G-6213 Slide: 0271 Time: 13 GMT Date: 10.VI.62  
 N. Lat: 21°55' W. Long: 86°24' Wind: 19 10  
 Sfc. Temp: 26.8° Air Temp: Dry: 26.2° Wet: 23.4°



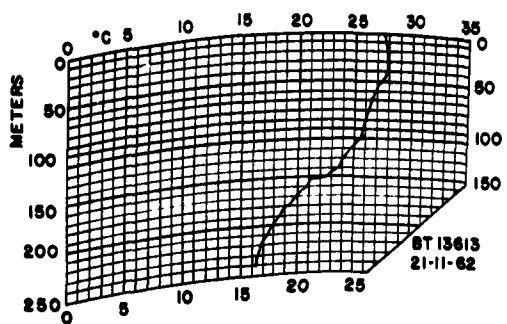
Cruise: G-6213 Slide: 0275 Time: 17 GMT Date: 11.VI.62  
 N. Lat: 21°26' W. Long: 86°28' Wind: 16 09  
 Sfc. Temp: 27.1° Air Temp: Dry: 27.0° Wet: 24.2°



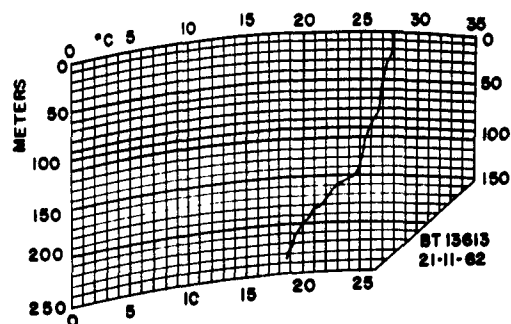
Cruise: G-6213 Slide: 0272 Time: 17 GMT Date: 10.VI.62  
 N. Lat: 21°50' W. Long: 86°25' Wind: 11 10  
 Sfc. Temp: 27.4° Air Temp: Dry: 27.3° Wet: 21.4°



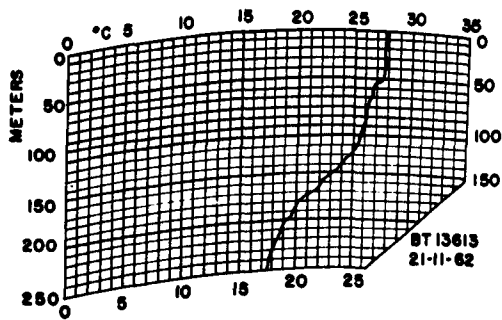
Cruise: G-6213 Slide: 0276 Time: 21 GMT Date: 11.VI.62  
 N. Lat: 21°34' W. Long: 86°15' Wind: 16 23  
 Sfc. Temp: 27.6° Air Temp: Dry: 26.7° Wet: 23.8°



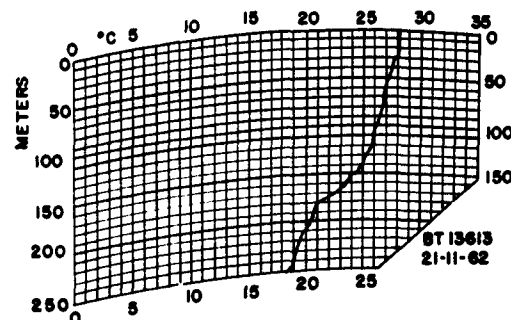
Cruise: G-6213 Slide: 0277 Time: 00 GMT Date: 12.VI.62  
 N. Lat: 21°39' W. Long: 86°05' Wind: 10 05  
 Sfc. Temp: 27.7° Air Temp: Dry: 28.2° Wet: 25.6°



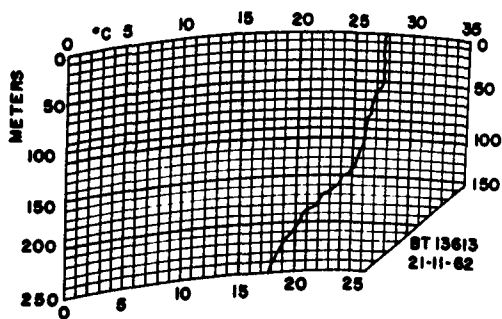
Cruise: G-6213 Slide: 0281 Time: 17 GMT Date: 12.VI.62  
 N. Lat: 22°06' W. Long: 85°12' Wind: 09 09  
 Sfc. Temp: 27.9° Air Temp: Dry: 27.5° Wet: 23.6°



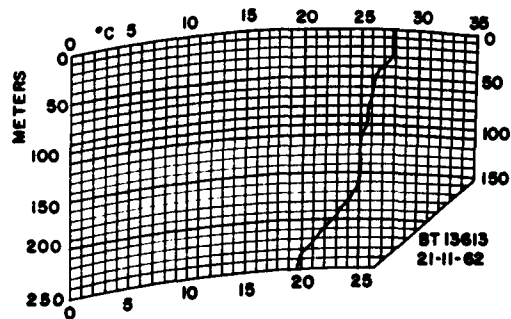
Cruise: G-6213 Slide: 0278 Time: 05 GMT Date: 12.VI.62  
 N. Lat: 21°45' W. Long: 85°53' Wind: 05 27  
 Sfc. Temp: 27.8° Air Temp: Dry: ----- Wet: -----



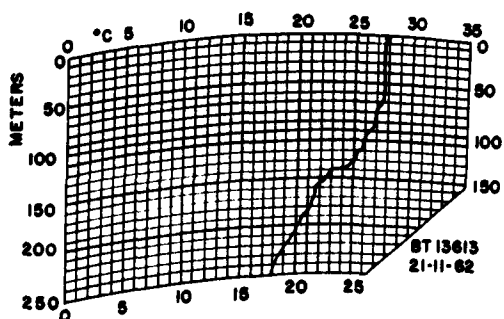
Cruise: G-6213 Slide: 0282 Time: 01 GMT Date: 13.VI.62  
 N. Lat: 21°53' W. Long: 85°06' Wind: 07 13  
 Sfc. Temp: 28.1° Air Temp: Dry: 27.0° Wet: 23.8°



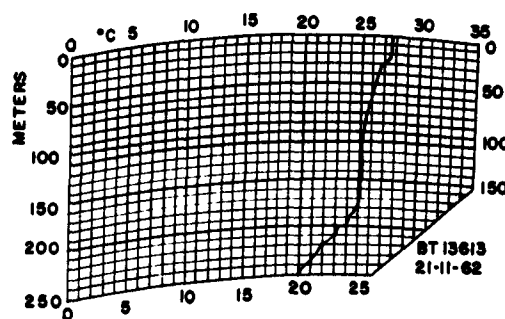
Cruise: G-6213 Slide: 0279 Time: 09 GMT Date: 12.VI.62  
 N. Lat: 21°51' W. Long: 85°41' Wind: 10 14  
 Sfc. Temp: 27.7° Air Temp: Dry: 27.1° Wet: 23.5°



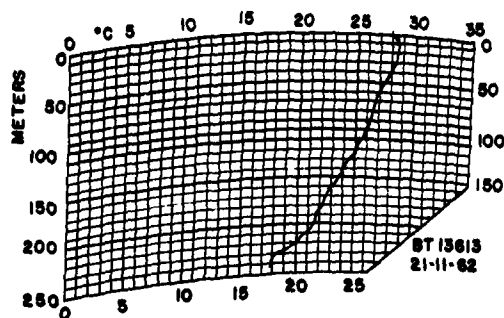
Cruise: G-6213 Slide: 0283 Time: 07 GMT Date: 13.VI.62  
 N. Lat: 22°44' W. Long: 84°52' Wind: 08 13  
 Sfc. Temp: 27.8° Air Temp: Dry: 26.7° Wet: 24.3°



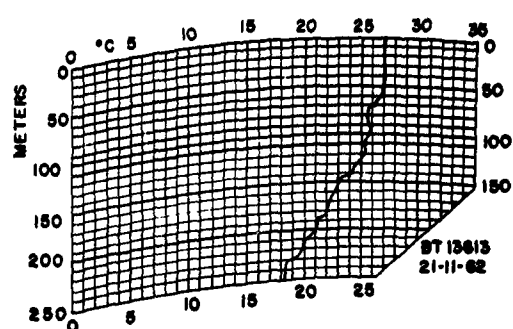
Cruise: G-6213 Slide: 0280 Time: 12 GMT Date: 12.VI.62  
 N. Lat: 22°00' W. Long: 85°26' Wind: 08 13  
 Sfc. Temp: 27.7° Air Temp: Dry: 27.0° Wet: 24.0°



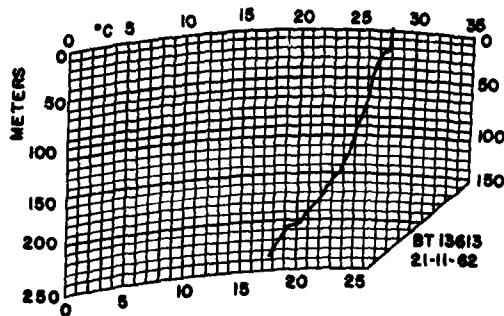
Cruise: G-6213 Slide: 0284 Time: 18 GMT Date: 13.VI.62  
 N. Lat: 23°07' W. Long: 83°57' Wind: 15 17  
 Sfc. Temp: 27.6° Air Temp: Dry: 25.3° Wet: 23.0°



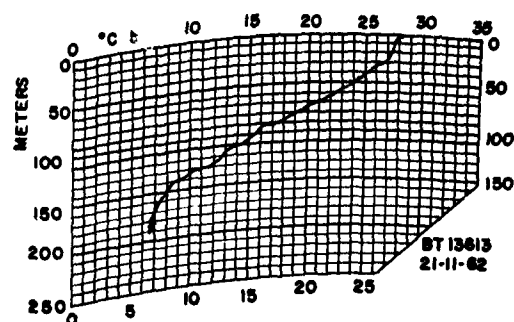
Cruise: G-6213 Slide: 0285 Time: 09 GMT Date: 14.VI.62  
N. Lat: 23°19' W. Long: 82°37' Wind: 15 15  
Sfc. Temp: 28.0° Air Temp: Dry: 26.0° Wet: 23.5°



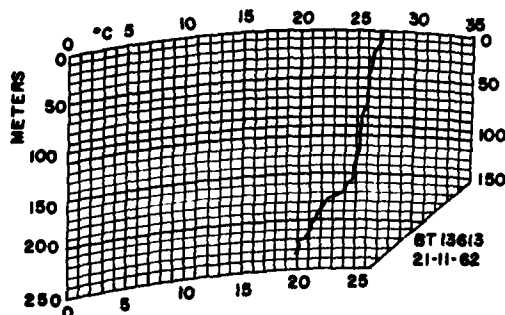
Cruise: G-6213 Slide: 0289 Time: 13 GMT Date: 15.VI.62  
N. Lat: 25°30' W. Long: 79°23' Wind: 11 11  
Sfc. Temp: 27.1° Air Temp: Dry: --- Wet: ---



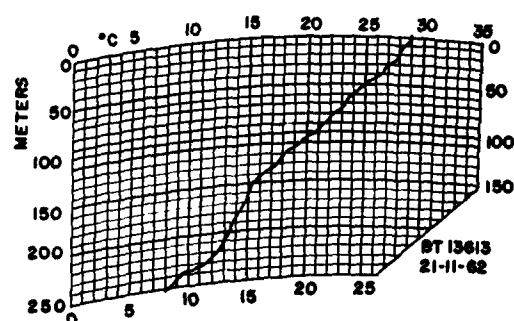
Cruise: G-6213 Slide: 0286 Time: 16 GMT Date: 14.VI.62  
N. Lat: 23°40' W. Long: 81°35' Wind: 13 18  
Sfc. Temp: 28.0° Air Temp: Dry: 26.5° Wet: 23.9°



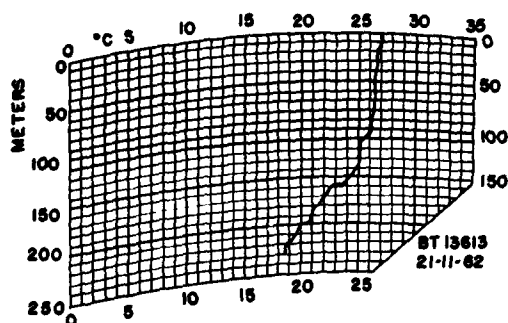
Cruise: G-6215 Slide: 0290 Time: 18 GMT Date: 25.VI.62  
N. Lat: 25°37' W. Long: 80°03' Wind: 11 05  
Sfc. Temp: 28.2° Air Temp: Dry: 29.1° Wet: 24.9°



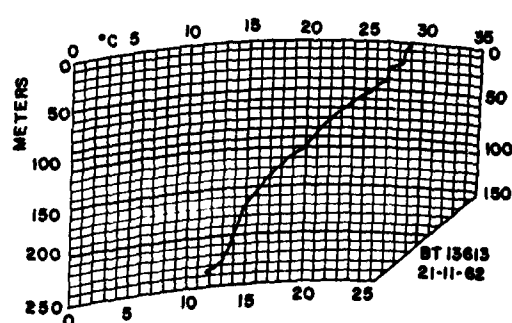
Cruise: G-6213 Slide: 0287 Time: 23 GMT Date: 14.VI.62  
N. Lat: 24°00' W. Long: 80°35' Wind: 13 05  
Sfc. Temp: 27.1° Air Temp: Dry: 27.6° Wet: 23.9°



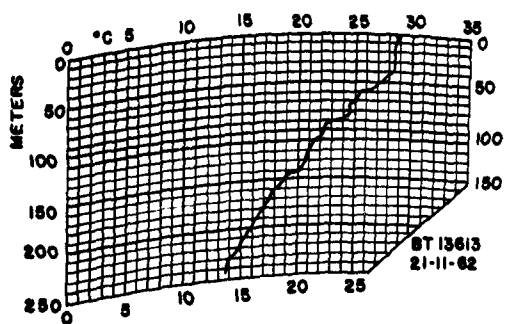
Cruise: G-6215 Slide: 0291 Time: 20 GMT Date: 25.VI.62  
N. Lat: 25°38' W. Long: 79°57' Wind: 14 06  
Sfc. Temp: 28.9° Air Temp: Dry: 28.9° Wet: 25.9°



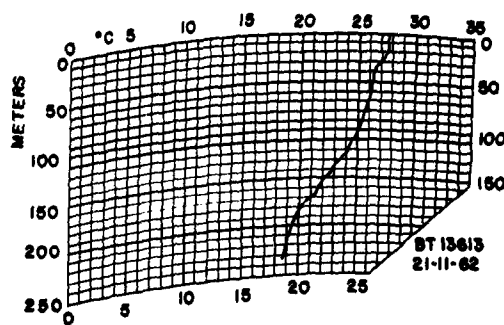
Cruise: G-6213 Slide: 0288 Time: 06 GMT Date: 15.VI.62  
N. Lat: 24°43' W. Long: 79°54' Wind: 11 16  
Sfc. Temp: 27.1° Air Temp: Dry: 27.0° Wet: 24.7°



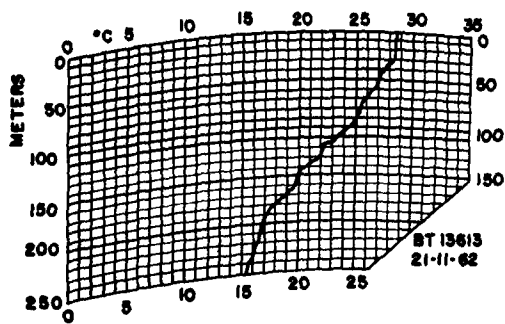
Cruise: G-6215 Slide: 0292 Time: 23 GMT Date: 25.VI.62  
N. Lat: 25°37' W. Long: 79°52' Wind: 08 03  
Sfc. Temp: 28.9° Air Temp: Dry: 30.0° Wet: 24.8°



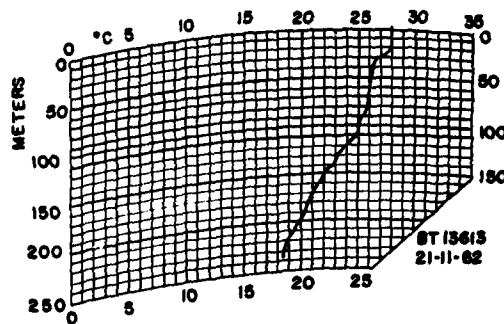
Cruise: G-6215 Slide: 0293 Time: 01 GMT Date: 26.VI.62  
N. Lat: 25°37' W. Long: 79°47' Wind: 10 08  
Sfc. Temp: 28.7° Air Temp: Dry: 25.7° Wet: 24.9°



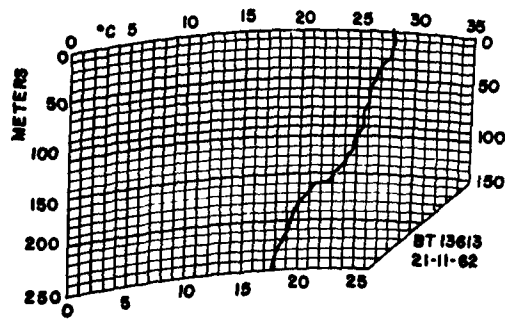
Cruise: G-6215 Slide: 0297 Time: 11 GMT Date: 26.VI.62  
N. Lat: 25°34' W. Long: 79°25' Wind: 15 13  
Sfc. Temp: 27.7° Air Temp: Dry: 27.7° Wet: 24.7°



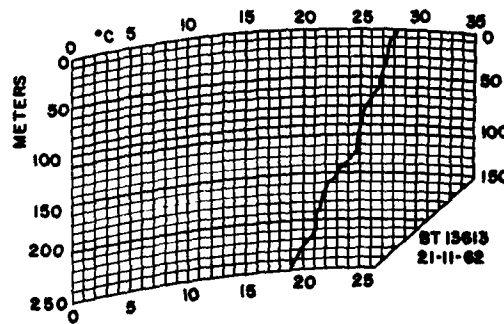
Cruise: G-6215 Slide: 0294 Time: 03 GMT Date: 26.VI.62  
N. Lat: 25°37' W. Long: 79°42' Wind: 09 07  
Sfc. Temp: 28.6° Air Temp: Dry: 28.1° Wet: 24.8°



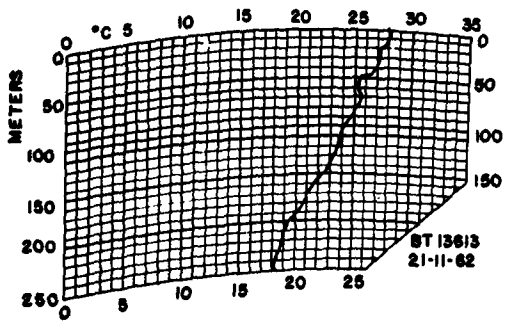
Cruise: G-6215 Slide: 0298 Time: 15 GMT Date: 26.VI.62  
N. Lat: 25°42' W. Long: 79°25' Wind: 13 13  
Sfc. Temp: 28.0° Air Temp: Dry: 28.8° Wet: 24.3°



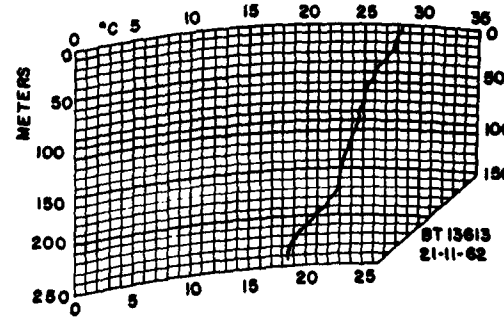
Cruise: G-6215 Slide: 0295 Time: 06 GMT Date: 26.VI.62  
N. Lat: 25°36' W. Long: 79°31' Wind: 12 10  
Sfc. Temp: 28.0° Air Temp: Dry: 27.2° Wet: 25.0°



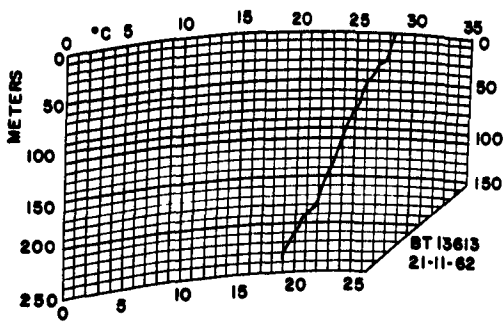
Cruise: G-6215 Slide: 0299 Time: 20 GMT Date: 26.VI.62  
N. Lat: 26°12' W. Long: 79°05' Wind: 12 09  
Sfc. Temp: 28.3° Air Temp: Dry: 29.2° Wet: 23.1°



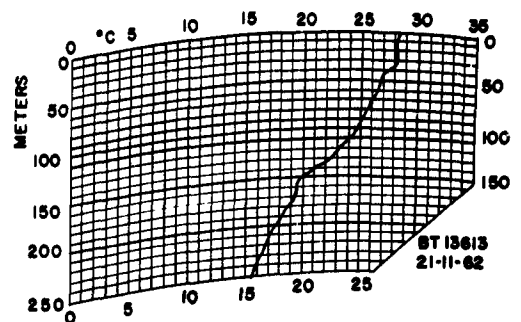
Cruise: G-6215 Slide: 0296 Time: 09 GMT Date: 26.VI.62  
N. Lat: 25°35' W. Long: 79°20' Wind: 14 11  
Sfc. Temp: 28.0° Air Temp: Dry: 27.8° Wet: 24.3°



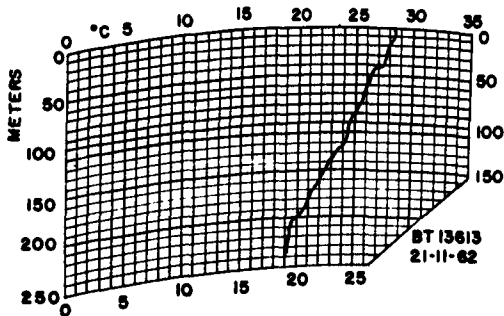
Cruise: G-6215 Slide: 0300 Time: 23 GMT Date: 26.VI.62  
N. Lat: 26°23' W. Long: 79°04' Wind: 15 05  
Sfc. Temp: 28.4° Air Temp: Dry: 29.9° Wet: 24.8°



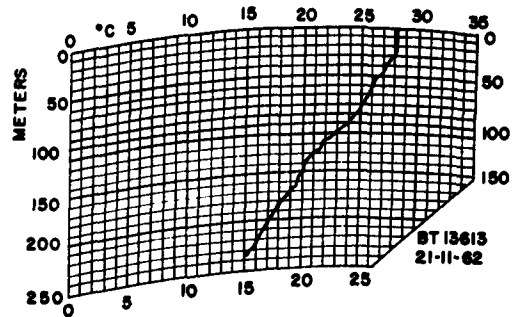
Cruise: G-6215 Slide: 0301 Time: 00 GMT Date: 27.VI.62  
N. Lat: 26°33' W. Long: 79°01' Wind: 13 08  
Sfc. Temp: 28.4° Air Temp: Dry: 28.3° Wet: 24.5°



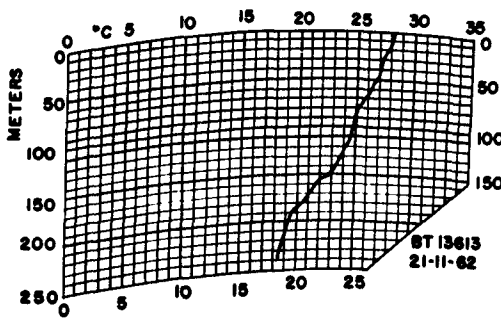
Cruise: G-6215 Slide: 0305 Time: 10 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°36' Wind: 11 05  
Sfc. Temp: 28.5° Air Temp: Dry: 27.7° Wet: 24.7°



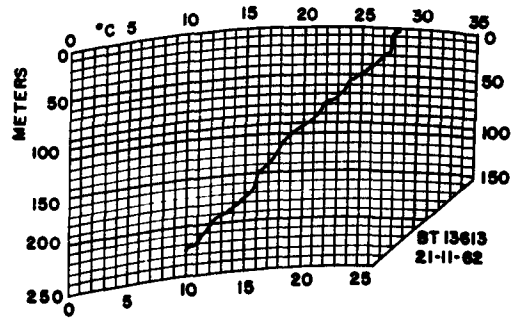
Cruise: G-6215 Slide: 0302 Time: 02 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°02' Wind: 12 12  
Sfc. Temp: 28.6° Air Temp: Dry: 28.0° Wet: 24.5°



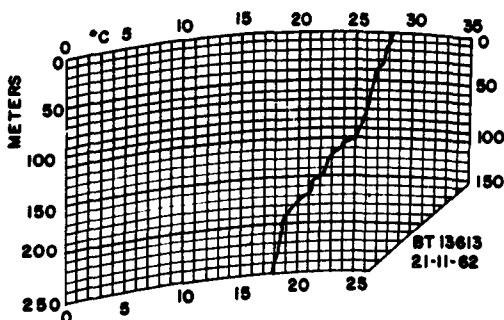
Cruise: G-6215 Slide: 0306 Time: 12 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°45' Wind: 08 04  
Sfc. Temp: 28.3° Air Temp: Dry: 28.3° Wet: 24.9°



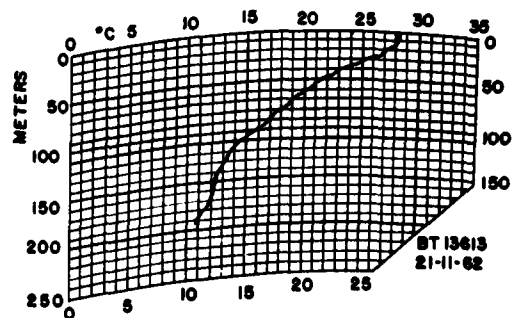
Cruise: G-6215 Slide: 0303 Time: 04 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°13' Wind: 13 14  
Sfc. Temp: 28.3° Air Temp: Dry: 28.0° Wet: 24.2°



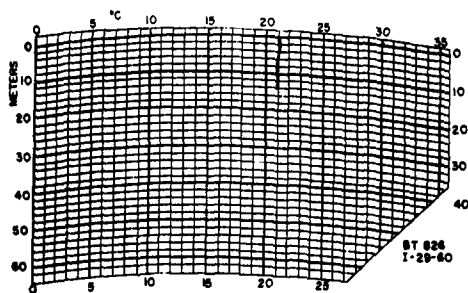
Cruise: G-6215 Slide: 0307 Time: 14 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°51' Wind: 00 00  
Sfc. Temp: 28.5° Air Temp: Dry: 31.4° Wet: 24.8°



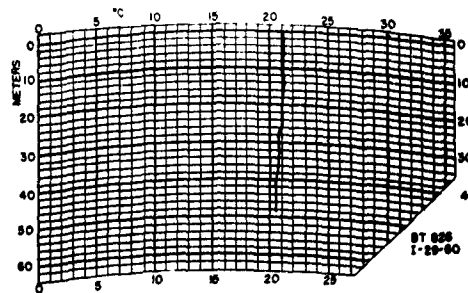
Cruise: G-6215 Slide: 0304 Time: 07 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°25' Wind: 10 11  
Sfc. Temp: 28.4° Air Temp: Dry: 27.6° Wet: 24.4°



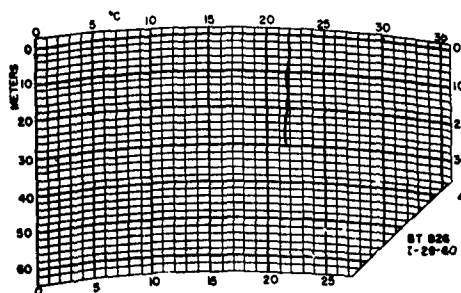
Cruise: G-6215 Slide: 0308 Time: 16 GMT Date: 27.VI.62  
N. Lat: 26°41' W. Long: 79°57' Wind: 09 02  
Sfc. Temp: 28.3° Air Temp: Dry: 30.0° Wet: 23.8°



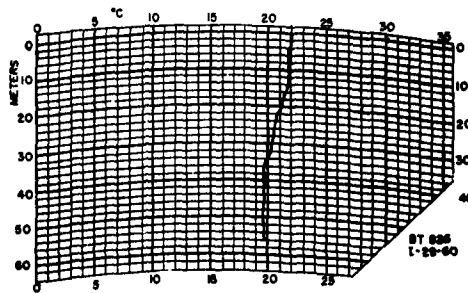
Cruise: GS-6201 Slide: 0001 Time: 19 GMT Date: 24.I.62  
 N. Lat: 24°42' W. Long: 81°55' Wind: 04 10  
 Sfc. Temp: 21.2° Air Temp: Dry: ---- Wet: ----



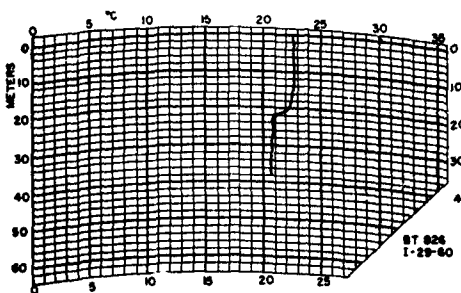
Cruise: GS-6201 Slide: 0005 Time: 15 GMT Date: 25.I.62  
 N. Lat: 25°08' W. Long: 82°45' Wind: 03 06  
 Sfc. Temp: 21.2° Air Temp: Dry: ---- Wet: ----



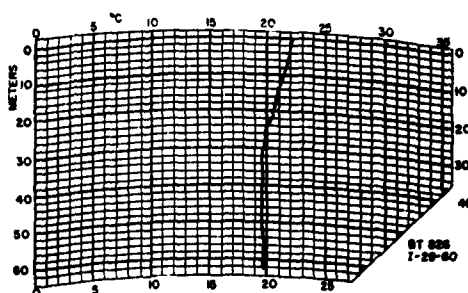
Cruise: GS-6201 Slide: 0002 Time: 24 GMT Date: 24.I.62  
 N. Lat: 24°46' W. Long: 82°23' Wind: 04 10  
 Sfc. Temp: 22.0° Air Temp: Dry: ---- Wet: ----



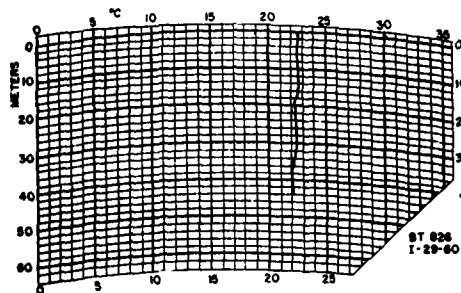
Cruise: GS-6201 Slide: 0006 Time: 18 GMT Date: 25.I.62  
 N. Lat: 25°15' W. Long: 82°55' Wind: 09 08  
 Sfc. Temp: 22.0° Air Temp: Dry: ---- Wet: ----



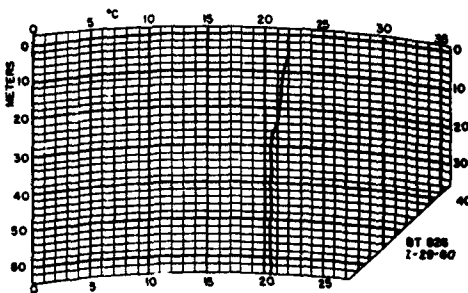
Cruise: GS-6201 Slide: 0003 Time: 03 GMT Date: 25.I.62  
 N. Lat: 24°54' W. Long: 82°32' Wind: -- 08  
 Sfc. Temp: 22.6° Air Temp: Dry: ---- Wet: ----



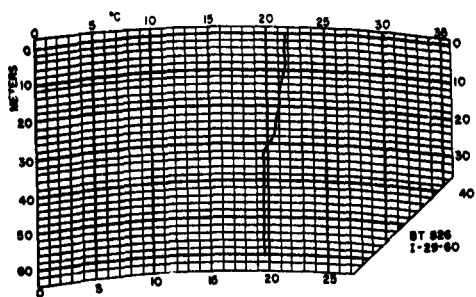
Cruise: GS-6201 Slide: 0007 Time: 21 GMT Date: 25.I.62  
 N. Lat: 25°08' W. Long: 83°04' Wind: 09 08  
 Sfc. Temp: 22.2° Air Temp: Dry: ---- Wet: ----



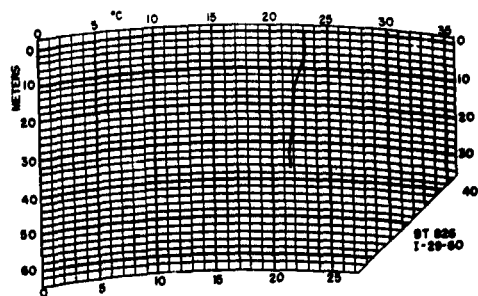
Cruise: GS-6201 Slide: 0004 Time: 06 GMT Date: 25.I.62  
 N. Lat: 25°02' W. Long: 82°35' Wind: 03 08  
 Sfc. Temp: 22.6° Air Temp: Dry: ---- Wet: ----



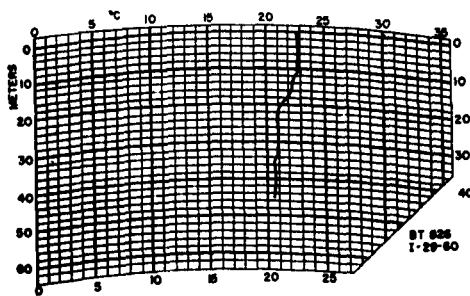
Cruise: GS-6201 Slide: 0008 Time: 01 GMT Date: 26.I.62  
 N. Lat: 25°00' W. Long: 83°15' Wind: 09 06  
 Sfc. Temp: 22.0° Air Temp: Dry: ---- Wet: ----



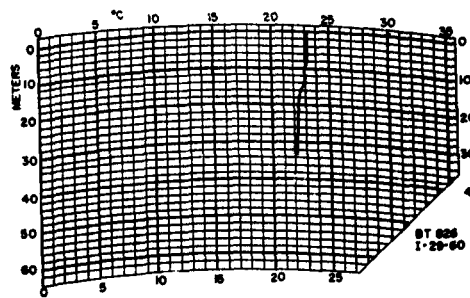
Cruise: GS-6201 Slide: 0009 Time: 03 GMT Date: 26.I.62  
N. Lat: 25°00' W. Long: 83°04' Wind: 09 04  
Sfc. Temp: 21.7° Air Temp: Dry: ---- Wet: ----



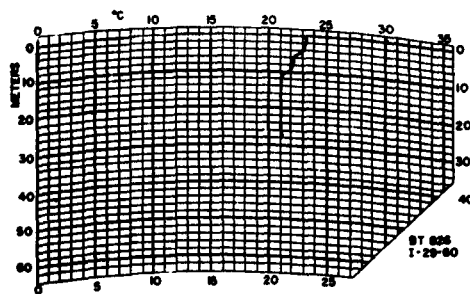
Cruise: GS-6202 Slide: 0013 Time: 02 GMT Date: 20.II.62  
N. Lat: 25°00' W. Long: 82°25' Wind: 04 03  
Sfc. Temp: 23.1° Air Temp: Dry: ---- Wet: ----



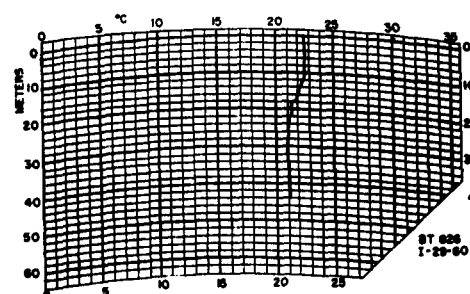
Cruise: GS-6201 Slide: 0010 Time: 10 GMT Date: 26.I.62  
N. Lat: 24°50' W. Long: 82°50' Wind: 09 10  
Sfc. Temp: 22.8° Air Temp: Dry: ---- Wet: ----



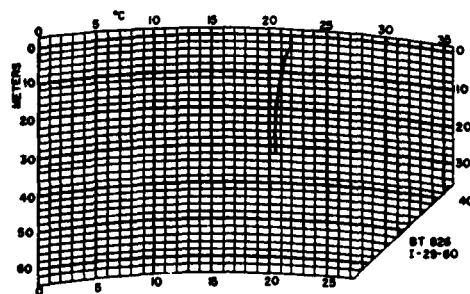
Cruise: GS-6202 Slide: 0014 Time: 05 GMT Date: 20.II.62  
N. Lat: 24°54' W. Long: 82°32' Wind: 04 04  
Sfc. Temp: 23.2° Air Temp: Dry: ---- Wet: ----



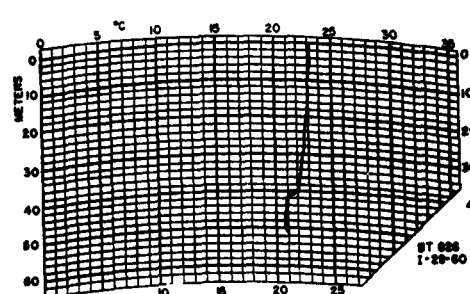
Cruise: GS-6202 Slide: 0011 Time: 22 GMT Date: 19.II.62  
N. Lat: 25°00' W. Long: 82°12' Wind: 15 09  
Sfc. Temp: 23.4° Air Temp: Dry: ---- Wet: ----



Cruise: GS-6202 Slide: 0015 Time: 16 GMT Date: 20.II.62  
N. Lat: 25°02' W. Long: 82°35' Wind: 04 08  
Sfc. Temp: 22.6° Air Temp: Dry: ---- Wet: ----

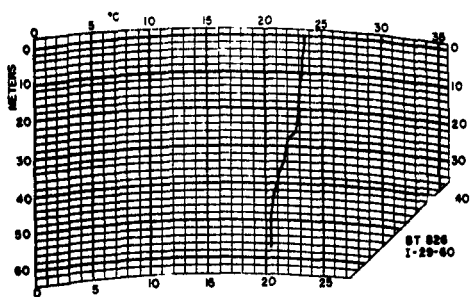


Cruise: GS-6202 Slide: 0012 Time: 01 GMT Date: 20.II.62  
N. Lat: 25°10' W. Long: 82°13' Wind: 13 05  
Sfc. Temp: 22.0° Air Temp: Dry: ---- Wet: ----

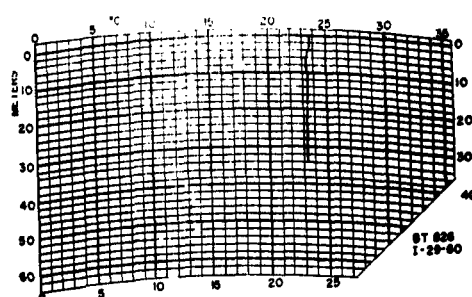


Cruise: GS-6202 Slide: 0016 Time: 18 GMT Date: 20.II.62  
N. Lat: 25°00' W. Long: 82°45' Wind: 04 09  
Sfc. Temp: 23.2° Air Temp: Dry: ---- Wet: ----

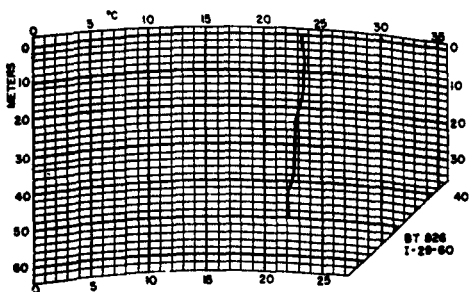




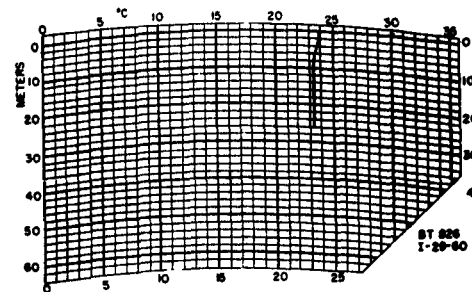
Cruise: GS-6202 Slide: 0017 Time: 22 GMT Date: 20.II.62  
N. Lat: 25°00' W. Long: 82°55' Wind: 04 08  
Sfc. Temp: 23.7° Air Temp: Dry: ----- Wet: -----



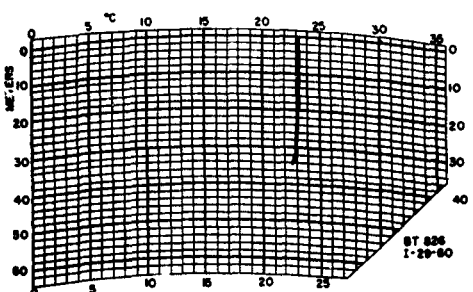
Cruise: GS-6202 Slide: 0021 Time: 18 GMT Date: 21.II.62  
N. Lat: 24°43' W. Long: 82°35' Wind: 09 07  
Sfc. Temp: 23.7° Air Temp: Dry: ----- Wet: -----



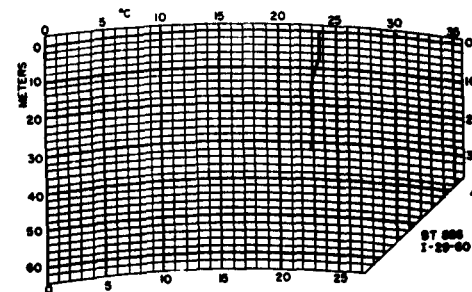
Cruise: GS-6202 Slide: 0018 Time: 01 GMT Date: 21.II.62  
N. Lat: 24°50' W. Long: 82°50' Wind: 06 08  
Sfc. Temp: 23.6° Air Temp: Dry: ----- Wet: -----



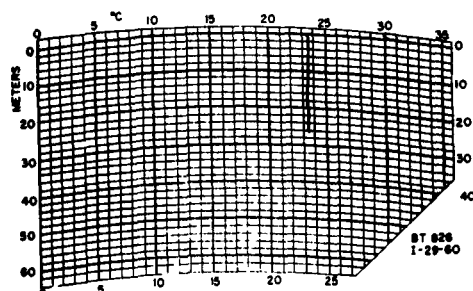
Cruise: GS-6202 Slide: 0022 Time: 20 GMT Date: 21.II.62  
N. Lat: 24°41' W. Long: 82°27' Wind: 13 10  
Sfc. Temp: 23.9° Air Temp: Dry: ----- Wet: -----



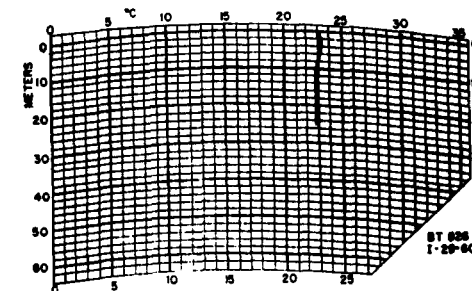
Cruise: GS-6202 Slide: 0019 Time: 05 GMT Date: 21.II.62  
N. Lat: 24°42' W. Long: 82°45' Wind: 06 07  
Sfc. Temp: 23.2° Air Temp: Dry: ----- Wet: -----



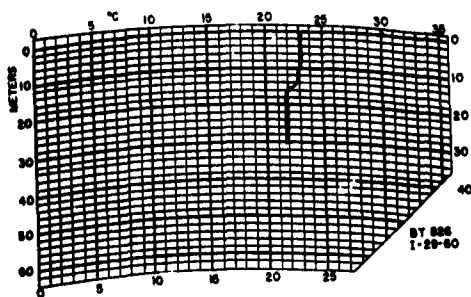
Cruise: GS-6202 Slide: 0023 Time: 23 GMT Date: 21.II.62  
N. Lat: 24°46' W. Long: 82°23' Wind: 13 10  
Sfc. Temp: 23.7° Air Temp: Dry: ----- Wet: -----



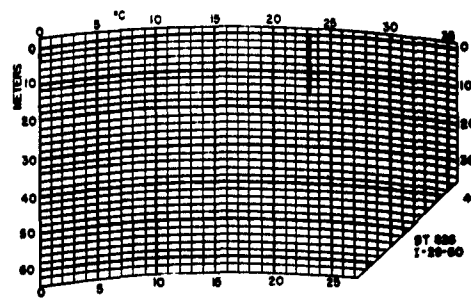
Cruise: GS-6202 Slide: 0020 Time: 15 GMT Date: 21.II.62  
N. Lat: 24°33' W. Long: 82°43' Wind: -- --  
Sfc. Temp: 23.6° Air Temp: Dry: ----- Wet: -----



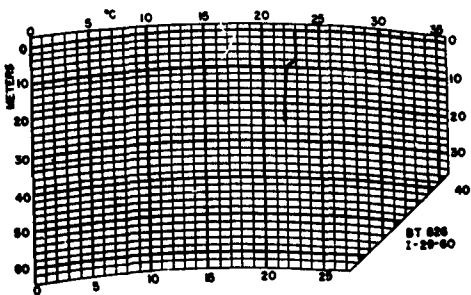
Cruise: GS-6202 Slide: 0024 Time: 02 GMT Date: 22.II.62  
N. Lat: 24°42' W. Long: 82°11' Wind: 15 05  
Sfc. Temp: 23.2° Air Temp: Dry: ----- Wet: -----



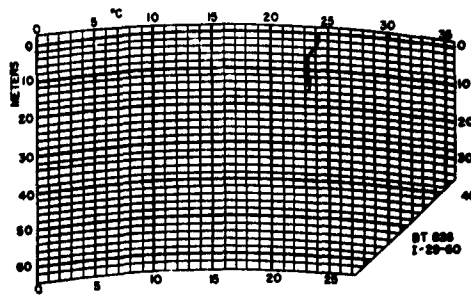
Cruise: GS-6202 Slide: 0025 Time: 04 GMT Date: 22.II.62  
N. Lat: 24°49' W. Long: 82°12' Wind: -- 10  
Sfc. Temp: 23.2° Air Temp: Dry: ----- Wet: -----



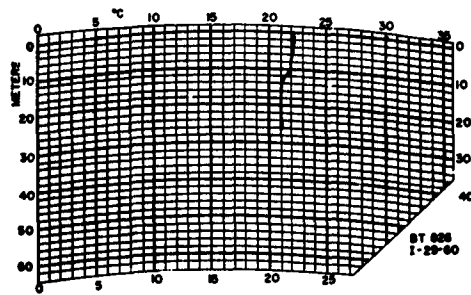
Cruise: GS-6202 Slide: 0029 Time: 24 GMT Date: 22.II.62  
N. Lat: 24°42' W. Long: 81°55' Wind: 15 09  
Sfc. Temp: 23.2° Air Temp: Dry: ----- Wet: -----



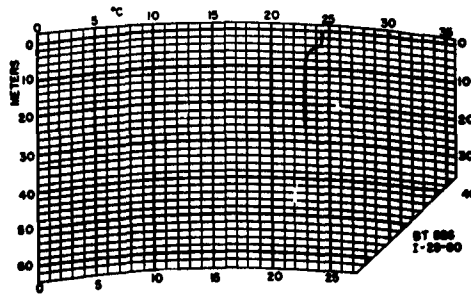
Cruise: GS-6202 Slide: 0026 Time: 14 GMT Date: 22.II.62  
N. Lat: 24°52' W. Long: 82°00' Wind: 16 07  
Sfc. Temp: 23.0° Air Temp: Dry: ----- Wet: -----



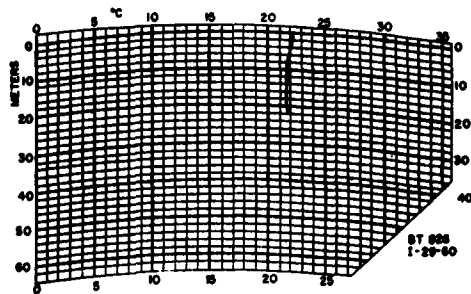
Cruise: GS-6203 Slide: 0030 Time: 19 GMT Date: 15.III.62  
N. Lat: 24°42' W. Long: 81°55' Wind: 21 08  
Sfc. Temp: 24.2° Air Temp: Dry: ----- Wet: -----



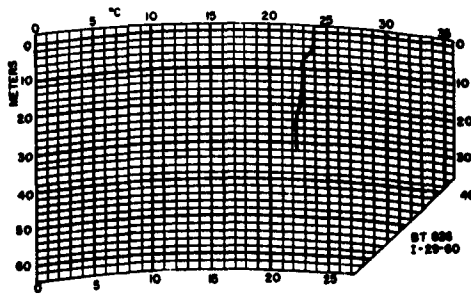
Cruise: GS-6202 Slide: 0027 Time: 17 GMT Date: 22.II.62  
N. Lat: 25°04' W. Long: 82°00' Wind: 15 08  
Sfc. Temp: 22.2° Air Temp: Dry: ----- Wet: -----



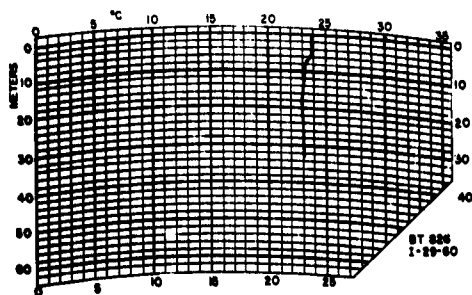
Cruise: GS-6203 Slide: 0031 Time: 22 GMT Date: 15.III.62  
N. Lat: 24°42' W. Long: 82°11' Wind: 21 07  
Sfc. Temp: 24.5° Air Temp: Dry: ----- Wet: -----



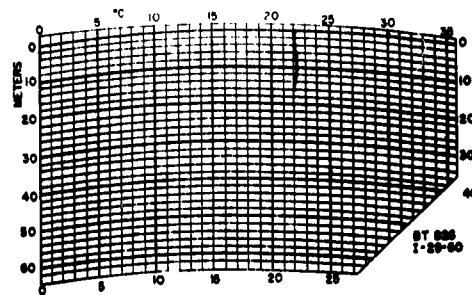
Cruise: GS-6202 Slide: 0028 Time: 20 GMT Date: 22.II.62  
N. Lat: 24°57' W. Long: 81°46' Wind: 17 11  
Sfc. Temp: 22.2° Air Temp: Dry: ----- Wet: -----



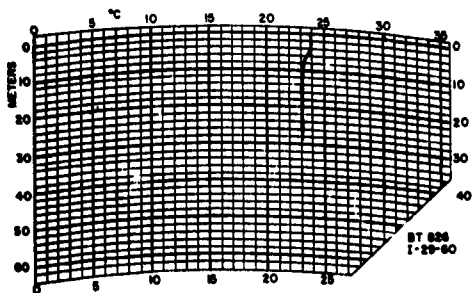
Cruise: GS-6203 Slide: 0032 Time: 01 GMT Date: 16.III.62  
N. Lat: 24°49' W. Long: 82°12' Wind: 20 08  
Sfc. Temp: 23.9° Air Temp: Dry: ----- Wet: -----



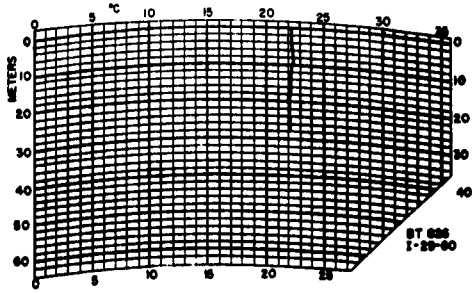
Cruise: GS-6203 Slide: 0033 Time: 04 GMT Date: 16.III.62  
 N. Lat: 24°46' W. Long: 82°23' Wind: 20 03  
 Sfc. Temp: 23.9° Air Temp: Dry: ---- Wet: ----



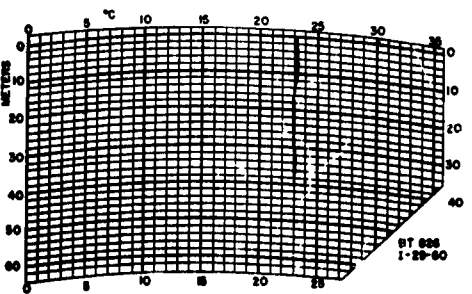
Cruise: GS-6204 Slide: 0037 Time: 18 GMT Date: 28.III.62  
 N. Lat: 24°42' W. Long: 81°55' Wind: 05 14  
 Sfc. Temp: 22.2° Air Temp: Dry: ---- Wet: ----



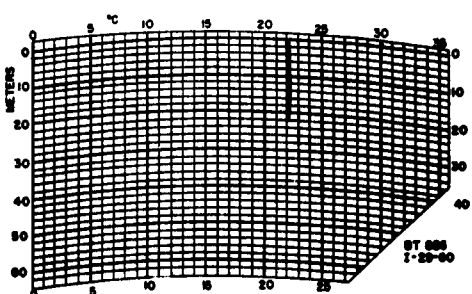
Cruise: GS-6203 Slide: 0034 Time: 06 GMT Date: 16.III.62  
 N. Lat: 24°41' W. Long: 82°27' Wind: 17 04  
 Sfc. Temp: 23.9° Air Temp: Dry: ---- Wet: ----



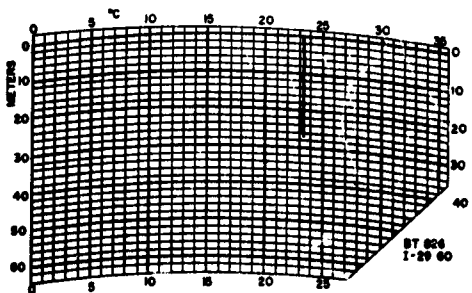
Cruise: GS-6204 Slide: 0038 Time: 22 GMT Date: 28.III.62  
 N. Lat: 24°52' W. Long: 82°00' Wind: 09 15  
 Sfc. Temp: 22.3° Air Temp: Dry: ---- Wet: ----



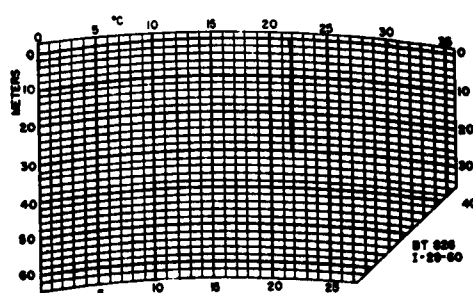
Cruise: GS-6203 Slide: 0035 Time: 15 GMT Date: 16.III.62  
 N. Lat: 24°43' W. Long: 82°35' Wind: 34 15  
 Sfc. Temp: 23.2° Air Temp: Dry: ---- Wet: ----



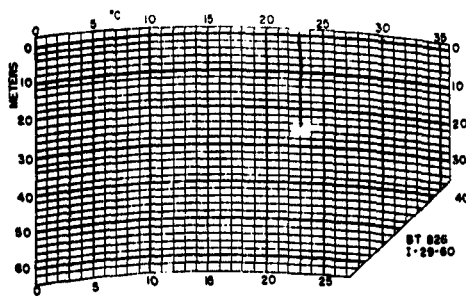
Cruise: GS-6204 Slide: 0039 Time: 01 GMT Date: 29.III.62  
 N. Lat: 24°57' W. Long: 81°46' Wind: 10 15  
 Sfc. Temp: 22.2° Air Temp: Dry: ---- Wet: ----



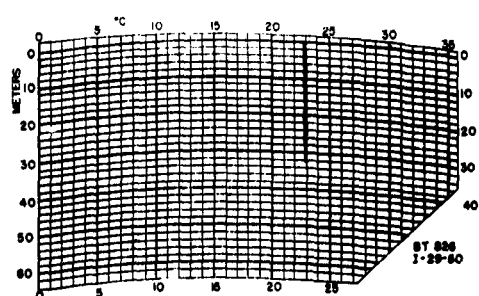
Cruise: GS-6203 Slide: 0036 Time: 18 GMT Date: 16.III.62  
 N. Lat: 24°33' W. Long: 82°43' Wind: 34 18  
 Sfc. Temp: 23.3° Air Temp: Dry: ---- Wet: ----



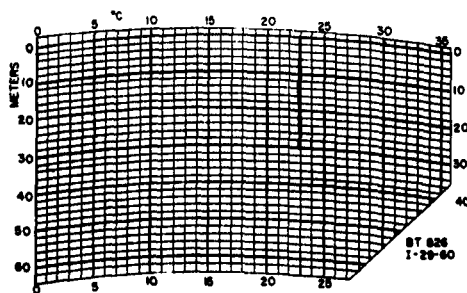
Cruise: GS-6204 Slide: 0040 Time: 04 GMT Date: 29.III.62  
 N. Lat: 25°06' W. Long: 82°00' Wind: 10 18  
 Sfc. Temp: 21.8° Air Temp: Dry: ---- Wet: ----



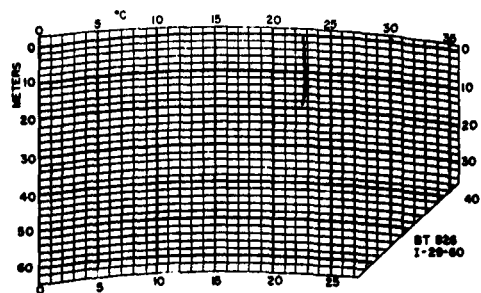
Cruise: GS-6205 Slide: 0041 Time: 20 GMT Date: 18.IV.62  
N. Lat: 24°42' W. Long: 82°11' Wind: 07 10  
Sfc. Temp: 23.0° Air Temp: Dry: ----- Wet: -----



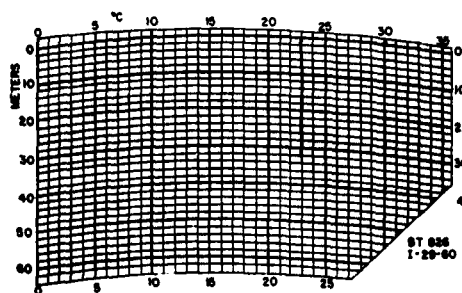
Cruise: GS-6205 Slide: 0045 Time: 05 GMT Date: 19.IV.62  
N. Lat: 24°43' W. Long: 82°35' Wind: 07 06  
Sfc. Temp: 22.8° Air Temp: Dry: ----- Wet: -----



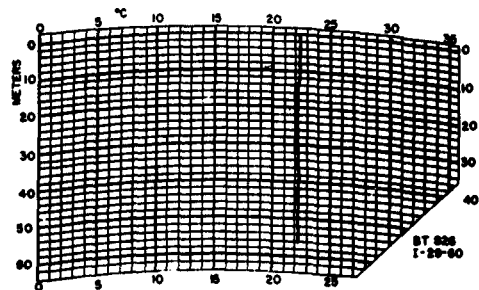
Cruise: GS-6205 Slide: 0042 Time: 22 GMT Date: 18.IV.62  
N. Lat: 24°49' W. Long: 82°12' Wind: 11 10  
Sfc. Temp: 22.9° Air Temp: Dry: ----- Wet: -----



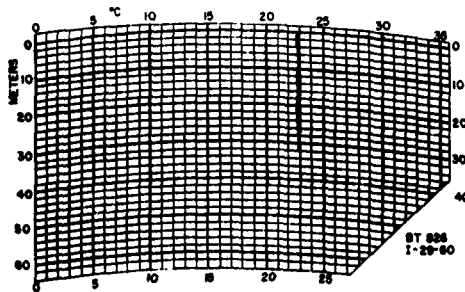
Cruise: GS-6205 Slide: 0046 Time: 14 GMT Date: 19.IV.62  
N. Lat: 24°50' W. Long: 82°50' Wind: 07 08  
Sfc. Temp: 22.6° Air Temp: Dry: ----- Wet: -----



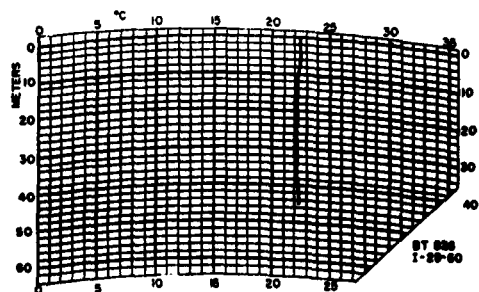
Cruise: GS-6205 Slide: 0043 Time: 00 GMT Date: 19.IV.62  
N. Lat: 24°46' W. Long: 82°23' Wind: 07 08  
Sfc. Temp: 22.9° Air Temp: Dry: ----- Wet: -----



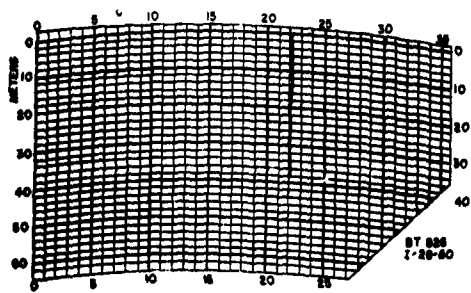
Cruise: GS-6205 Slide: 0047 Time: 18 GMT Date: 19.IV.62  
N. Lat: 25°00' W. Long: 82°35' Wind: 04 08  
Sfc. Temp: 22.4° Air Temp: Dry: ----- Wet: -----



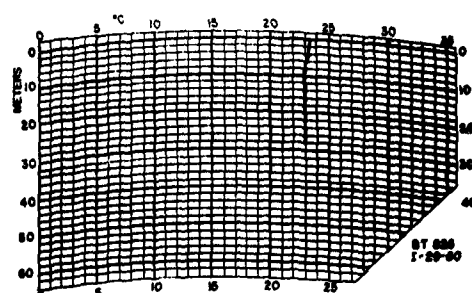
Cruise: GS-6205 Slide: 0044 Time: 02 GMT Date: 19.IV.62  
N. Lat: 24°41' W. Long: 82°27' Wind: 07 08  
Sfc. Temp: 22.8° Air Temp: Dry: ----- Wet: -----



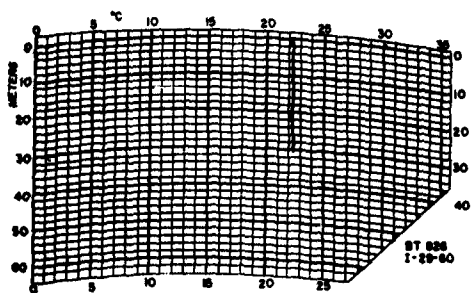
Cruise: GS-6205 Slide: 0048 Time: 21 GMT Date: 19.IV.62  
N. Lat: 25°02' W. Long: 82°35' Wind: 36 10  
Sfc. Temp: 22.4° Air Temp: Dry: ----- Wet: -----



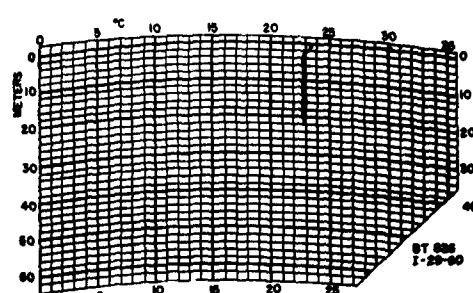
Cruise: GS-6205 Slide: 0049 Time: 00 GMT Date: 20.IV.62  
N. Lat: 24°54' W. Long: 82°32' Wind: 36 08  
Sfc. Temp: 22.2° Air Temp: Dry: ----- Wet: -----



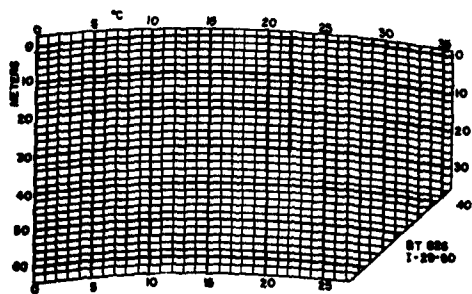
Cruise: GS-6205 Slide: 0053 Time: 19 GMT Date: 20.IV.62  
N. Lat: 24°52' W. Long: 82°00' Wind: 36 06  
Sfc. Temp: 23.5° Air Temp: Dry: ----- Wet: -----



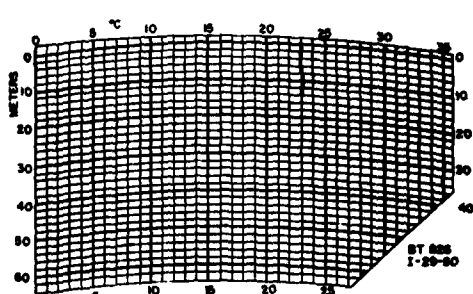
Cruise: GS-6205 Slide: 0050 Time: 04 GMT Date: 20.IV.62  
N. Lat: 25°00' W. Long: 82°12' Wind: 36 08  
Sfc. Temp: 22.3° Air Temp: Dry: ----- Wet: -----



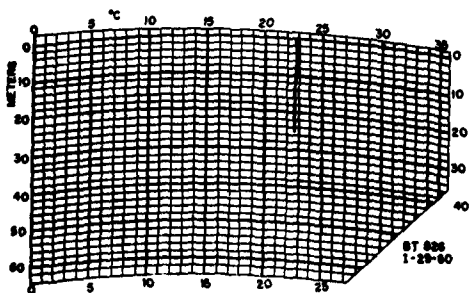
Cruise: GS-6205 Slide: 0054 Time: 22 GMT Date: 20.IV.62  
N. Lat: 24°57' W. Long: 81°46' Wind: 36 04  
Sfc. Temp: 23.5° Air Temp: Dry: ----- Wet: -----



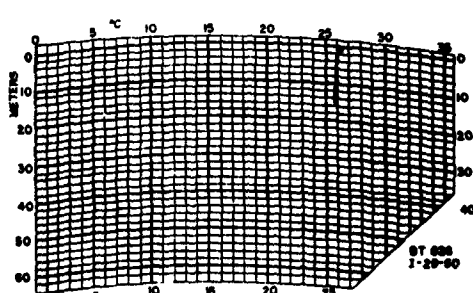
Cruise: GS-6205 Slide: 0051 Time: 07 GMT Date: 20.IV.62  
N. Lat: 25°10' W. Long: 82°13' Wind: 34 10  
Sfc. Temp: 22.0° Air Temp: Dry: ----- Wet: -----



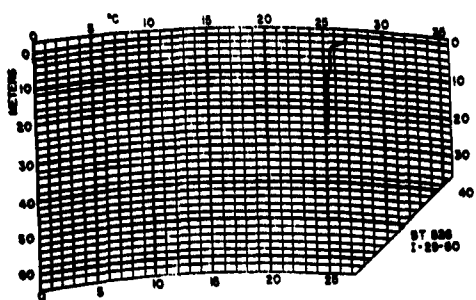
Cruise: GS-6205 Slide: 0055 Time: 13 GMT Date: 21.IV.62  
N. Lat: 24°42' W. Long: 81°55' Wind: 04 08  
Sfc. Temp: 23.0° Air Temp: Dry: ----- Wet: -----



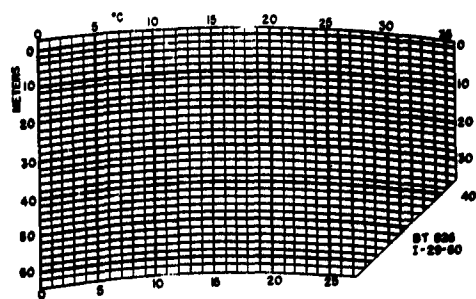
Cruise: GS-6205 Slide: 0052 Time: 16 GMT Date: 20.IV.62  
N. Lat: 25°04' W. Long: 82°00' Wind: 36 10  
Sfc. Temp: 22.7° Air Temp: Dry: ----- Wet: -----



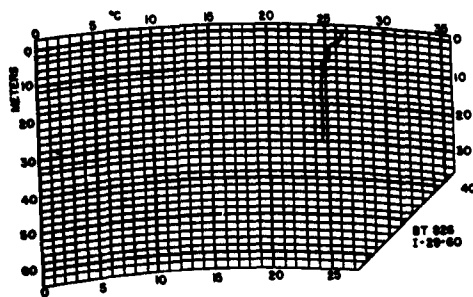
Cruise: GS-6206 Slide: 0056 Time: 17 GMT Date: 22.V.62  
N. Lat: 24°42' W. Long: 81°55' Wind: 01 01  
Sfc. Temp: 26.5° Air Temp: Dry: ----- Wet: -----



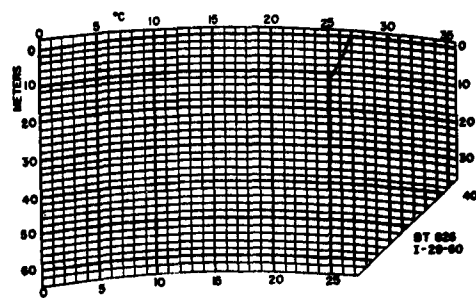
Cruise: GS-6206 Slide: 0057 Time: 20 GMT Date: 22.V.62  
 N. Lat: 24°52' W. Long: 82°00' Wind: 01 01  
 Sfc. Temp: 27.1° Air Temp: Dry: ----- Wet: -----



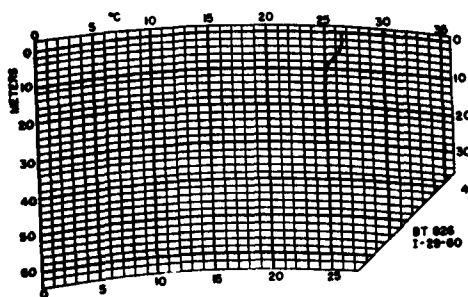
Cruise: GS-6206 Slide: 0061 Time: 14 GMT Date: 23.V.62  
 N. Lat: 24°41' W. Long: 82°27' Wind: 36 05  
 Sfc. Temp: 26.1° Air Temp: Dry: ----- Wet: -----



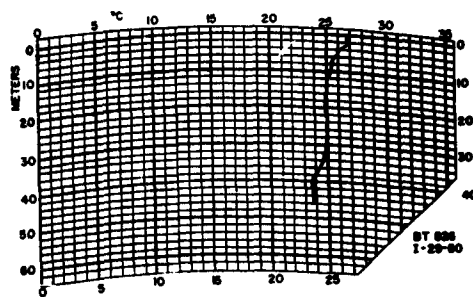
Cruise: GS-6206 Slide: 0058 Time: 23 GMT Date: 22.V.62  
 N. Lat: 25°00' W. Long: 82°12' Wind: 26 04  
 Sfc. Temp: 26.5° Air Temp: Dry: ----- Wet: -----



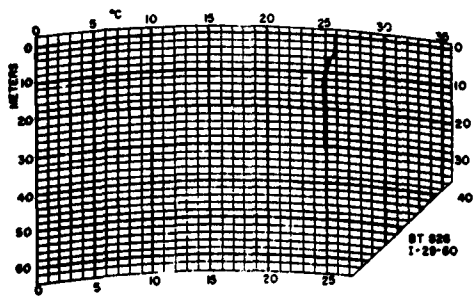
Cruise: GS-6206 Slide: 0062 Time: 17 GMT Date: 23.V.62  
 N. Lat: 24°43' W. Long: 82°35' Wind: 36 05  
 Sfc. Temp: 26.8° Air Temp: Dry: ----- Wet: -----



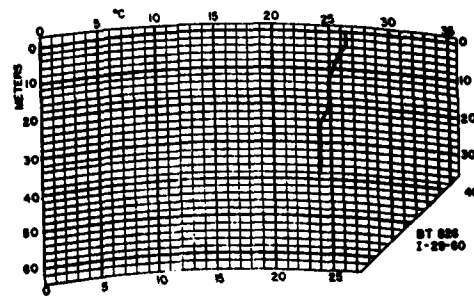
Cruise: GS-6206 Slide: 0059 Time: 03 GMT Date: 23.V.62  
 N. Lat: 24°49' W. Long: 82°12' Wind: 31 05  
 Sfc. Temp: 26.5° Air Temp: Dry: ----- Wet: -----



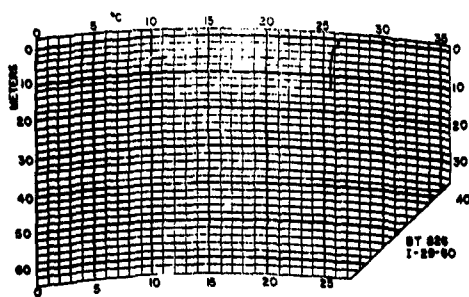
Cruise: GS-6206 Slide: 0063 Time: 21 GMT Date: 23.V.62  
 N. Lat: 24°50' W. Long: 82°50' Wind: 36 05  
 Sfc. Temp: 26.8° Air Temp: Dry: ----- Wet: -----



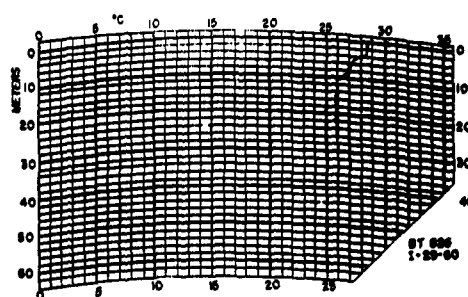
Cruise: GS-6206 Slide: 0060 Time: 05 GMT Date: 23.V.62  
 N. Lat: 24°46' W. Long: 82°23' Wind: 31 05  
 Sfc. Temp: 25.9° Air Temp: Dry: ----- Wet: -----



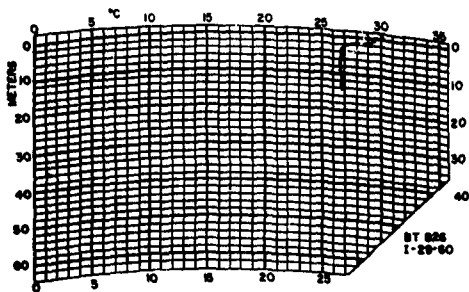
Cruise: GS-6206 Slide: 0064 Time: 24 GMT Date: 23.V.62  
 N. Lat: 24°54' W. Long: 82°32' Wind: 32 05  
 Sfc. Temp: 26.4° Air Temp: Dry: ----- Wet: -----



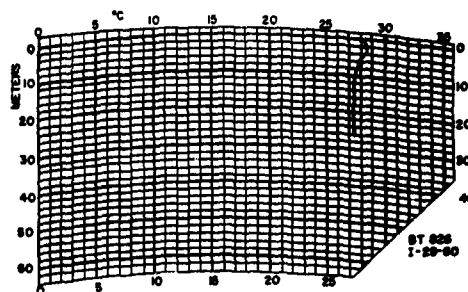
Cruise: GS-6206 Slide: 0065 Time: 05 GMT Date: 24.VI.62  
N. Lat: 24°42' W. Long: 82°11' Wind: 04 08  
Sfc. Temp: 26.4° Air Temp: Dry: ----- Wet: -----



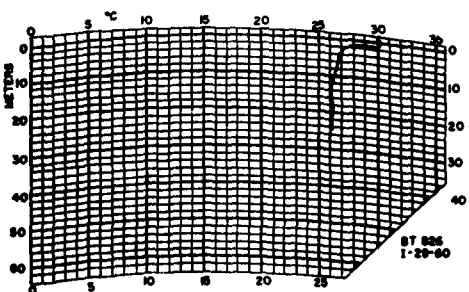
Cruise: GS-6207 Slide: 0069 Time: 05 GMT Date: 06.VI.62  
N. Lat: 24°49' W. Long: 82°12' Wind: 31 02  
Sfc. Temp: 28.5° Air Temp: Dry: ----- Wet: -----



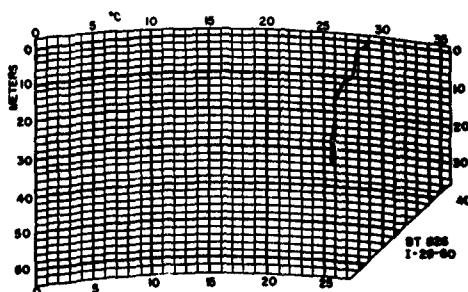
Cruise: GS-6207 Slide: 0066 Time: 18 GMT Date: 05.VI.62  
N. Lat: 24°42' W. Long: 81°55' Wind: 00 00  
Sfc. Temp: 29.5° Air Temp: Dry: ----- Wet: -----



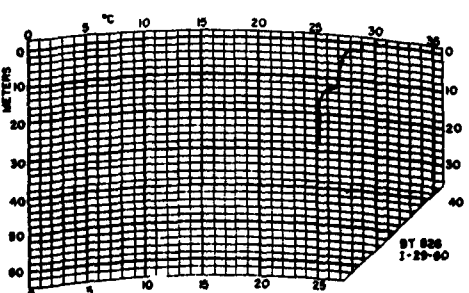
Cruise: GS-6207 Slide: 0071 Time: 14 GMT Date: 06.VI.62  
N. Lat: 24°41' W. Long: 82°27' Wind: 36 01  
Sfc. Temp: 28.3° Air Temp: Dry: ----- Wet: -----



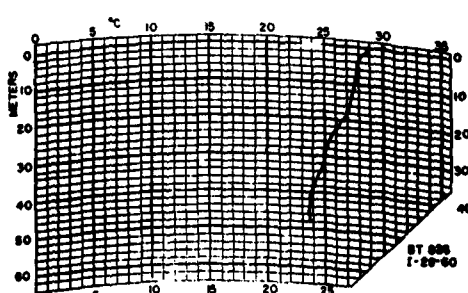
Cruise: GS-6207 Slide: 0067 Time: 21 GMT Date: 05.VI.62  
N. Lat: 24°52' W. Long: 82°00' Wind: 99 01  
Sfc. Temp: 30.1° Air Temp: Dry: ----- Wet: -----



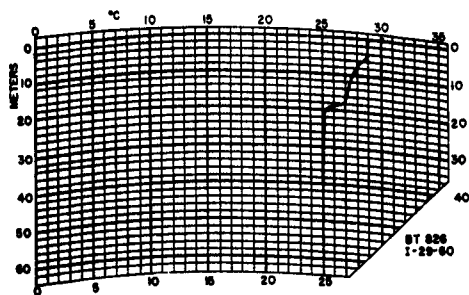
Cruise: GS-6207 Slide: 0072 Time: 16 GMT Date: 06.VI.62  
N. Lat: 24°43' W. Long: 82°35' Wind: 31 05  
Sfc. Temp: 28.8° Air Temp: Dry: ----- Wet: -----



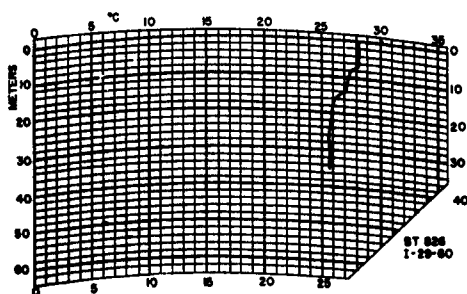
Cruise: GS-6207 Slide: 0068 Time: 24 GMT Date: 05.VI.62  
N. Lat: 25°00' W. Long: 82°12' Wind: 28 03  
Sfc. Temp: 29.0° Air Temp: Dry: ----- Wet: -----



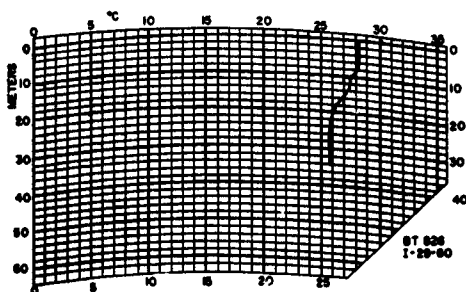
Cruise: GS-6207 Slide: 0073 Time: 20 GMT Date: 06.VI.62  
N. Lat: 24°50' W. Long: 82°50' Wind: 34 04  
Sfc. Temp: 28.8° Air Temp: Dry: ----- Wet: -----



Cruise: GS-6207 Slide: 0074 Time: 23 GMT Date: 06.VI.62  
 N. Lat: 24°54' W. Long: 82°32' Wind: 31 06  
 Sfc. Temp: 29.0° Air Temp: Dry: ----- Wet: -----



Cruise: GS-6207 Slide: 0075 Time: 01 GMT Date: 07.VI.62  
 N. Lat: 24°49' W. Long: 82°27' Wind: 34 08  
 Sfc. Temp: 28.2° Air Temp: Dry: ----- Wet: -----



Cruise: GS-6207 Slide: 0076 Time: 02 GMT Date: 07.VI.62  
 N. Lat: 24°49' W. Long: 82°28' Wind: 34 06  
 Sfc. Temp: 28.2° Air Temp: Dry: ----- Wet: -----



#### IV. LIST OF CODES USED

##### Vessel

01	R/V GERDA	University of Miami
02	R/V PANDA	University of Miami
03	R/V SPENCER F. BAIRD	Scripps Institution of Oceanography
04	M/V SEA HUNTER	(Chartered)
05	M/V VICCA	(U. of M. in cooperation with Velsicol Chemical Corp.)
06	Ship HYDROGRAPHER	U. S. Coast and Geodetic Survey
07	M/V ARGOSY	(U. of M. in cooperation with Mr. A. C. Glassell, Jr.)
08	M/V GREEN SEAS	(Chartered)

##### Wind Direction (True): WMO Code 23

00	Calm	99	Variable		
01	5°-14°	10	95°-104°	19	185°-194°
02	15 -24	11	105 -114	20	195 -204
03	25 -34	12	115 -124	21	205 -214
04	35 -44	13	125 -134	22	215 -224
05	45 -54	14	135 -144	23	225 -234
06	55 -64	15	145 -154	24	235 -244
07	65 -74	16	155 -164	25	245 -254
08	75 -84	17	165 -174	26	255 -264
09	85 -94	18	175 -184	27	265 -274
				28	275°-284°
				29	285 -294
				30	295 -304
				31	305 -314
				32	315 -324
				33	325 -334
				34	335 -344
				35	345 -354
				36	355 - 4
(N - E)		(E - S)		(S - W)	
				(W - N)	

##### Weather: WMO Code 90 A

0	Clear sky	5	Drizzle
1	Partly cloudy	6	Rain
2	Continuous cloud layer	7	Snow, or rain and snow
3	Sand, dust, or snow storm(s)	8	Shower(s)
4	Fog, thick dust, or haze	9	Thunderstorm(s)

One digit only is recorded

##### Cloud Amount: WMO Code 60

0	No clouds	5	5/8 of sky covered
1	1/8 of sky covered	6	6/8 of sky covered
2	2/8 of sky covered	7	7/8 of sky covered
3	3/8 of sky covered	8	8/8 of sky covered
4	4/8 of sky covered	9	Cover cannot be estimated

##### State of Sea: WMO Code 75

0	Calm, glassy	0 m	5	Rough	2.5- 4 m
1	Calm, rippled	0 -0.1	6	Very rough	4 - 6
2	Smooth, wavelets	0.1 -0.5	7	High	6 - 9
3	Slight	0.5 -1.25	8	Very high	9 -14
4	Moderate	1.25-2.5	9	Phenomenal	over 14

The average wave height is obtained from the larger well-formed waves of the wave system observed.

UNCLASSIFIED TECHNICAL REPORTS DISTRIBUTION LIST  
for OCEANOGRAPHIC CONTRACTORS  
of the GEOPHYSICS BRANCH  
of the OFFICE OF NAVAL RESEARCH  
(Revised January 1963)

DEPARTMENT OF DEFENSE

<p>1 Director of Defense Research &amp; Engineering Attn: Coordinating Committee on Science Pentagon Washington 25, D. C.</p>	<p>10 Commanding Officer Office of Naval Research Branch Navy #100, Fleet Post Office New York, New York</p>
<p><u>Navy</u></p> <p>2 Office of Naval Research Geophysics Branch (Code 416) Washington 25, D. C.</p>	<p>1 Oceanographer Office of Naval Research Navy #100, Box 39 Fleet Post Office New York, New York</p>
<p>Office of Naval Research Washington 25, D. C.</p>	<p>1 Contract Administrator Southeastern Area Office of Naval Research 2110 "G" Street, N. W. Washington 7, D. C.</p>
<p>1 Attn: Biology Branch (Code 446)</p>	<p>1 ONR Special Representative c/o Hudson Laboratories Columbia University 145 Palisade Street Dobbs Ferry, New York</p>
<p>1 Attn: Surface Branch (Code 463)</p>	<p>1 Your Resident Representative Office of Naval Research</p>
<p>1 Attn: Undersea Warfare (Code 466)</p>	<p>6 Director Naval Research Laboratory Attn: Code 5500 Washington 25, D. C.</p>
<p>1 Attn: Special Projects (Code 418)</p>	<p>(Note: 3 copies are forwarded by the above addressee to the British Joint Services Staff for further distribution in England and Canada.)</p>
<p>1 Commanding Officer Office of Naval Research Branch 495 Summer Street Boston 10, Massachusetts</p>	<p>1 Oceanographer U. S. Naval Oceanographic Office Washington 25, D. C. Attn: Library (Code 1640)</p>
<p>1 Commanding Officer Office of Naval Research 207 West 24th Street New York 11, New York</p>	<p>1 U. S. Naval Branch Oceanographic Office Navy 3923, Box 77 F. P. O. San Francisco, California</p>
<p>1 Commanding Officer Office of Naval Research Branch The John Crerar Library Building 86 East Randolph Street Chicago 1, Illinois</p>	
<p>1 Commanding Officer Office of Naval Research Branch 1000 Geary Street San Francisco 9, California</p>	
<p>1 Commanding Officer Office of Naval Research Branch 1030 East Green Street Pasadena 1, California</p>	

1	Chief, Bureau of Naval Weapons Department of the Navy Washington 25, D. C. Attn: FASS	1	Officer in Charge U. S. Navy Weather Research Facility Naval Air Station, Bldg. R-48 Norfolk, Virginia
1	Attn: RU-222		
1	Office of the U. S. Naval Weather Service U. S. Naval Station Washington 25, D. C.	1	U. S. Fleet Weather Facility U. S. Naval Air Station San Diego 35, California
1	Chief, Bureau of Yards & Docks Office of Research Department of the Navy Washington 25, D. C. Attn: Code 70	1	Commanding Officer U. S. Navy Air Development Center Johnsville, Pennsylvania Attn: NADC Library
1	Commanding Officer & Director U. S. Navy Electronics Laboratory San Diego 52, California Attn: Code 2201	1	Superintendent U. S. Naval Academy Annapolis, Maryland
1	Attn: Code 2420	2	Department of Meteorology & Oceanography U. S. Naval Postgraduate School Monterey, California
1	Commanding Officer & Director U. S. Naval Civil Engineering Laboratory Port Hueneme, California Attn: Code L54	1	Commanding Officer U. S. Naval Underwater Sound Laboratory New London, Connecticut
1	Code 3145 Box 7 Pt. Mugu Missile Range Pt. Mugu, California	1	Commanding Officer U. S. Navy Mine Defense Laboratory Panama City, Florida
			<u>Air Force</u>
1	Commander, Naval Ordnance Laboratory White Oak, Silver Spring, Maryland Attn: E. Liberman, Librarian	1	Hdqtrs., Air Weather Service (AWSS/TIPD) U. S. Air Force Scott Air Force Base, Illinois
1	Commanding Officer Naval Ordnance Test Station China Lake, California Attn: Code 753	1	ARCRL (CRZF) L. G. Hanscom Field Bedford, Massachusetts
1	Attn: Code 508		
			<u>Army</u>
1	Commanding Officer Naval Radiological Defense Laboratory San Francisco, California	1	Army Research Office Office of the Chief of R & D Department of the Army Washington 25, D. C.
1	Commanding Officer U. S. Navy Underwater Ordnance Station Newport, Rhode Island	1	U. S. Army Beach Erosion Board 5201 Little Falls Road, N. W. Washington 16, D. C.
	Chief, Bureau of Ships Department of the Navy Washington 25, D. C. Attn: Code 373	1	Army Research Office Washington 25, D. C. Attn: Environmental Sciences Division

OTHER U. S. GOVERNMENT AGENCIES

1	Office of Technical Services Department of Commerce Washington 25, D. C.		Bureau of Commercial Fisheries U. S. Fish & Wildlife Service Post Office Box 3830 Honolulu 12, Hawaii
10	Armed Services Technical Information Agency Arlington Hall Station Arlington 12, Virginia	1	Attn: Librarian
		1	Laboratory Director Biological Laboratory Bureau of Commercial Fisheries P. O. Box 3098, Fort Crockett Galveston, Texas
2	National Research Council 2101 Constitution Avenue Washington 25, D. C. Attn: Committee on Undersea Warfare Attn: Committee on Oceanography	1	Laboratory Director Biological Laboratory, Auke Bay Bureau of Commercial Fisheries P. O. Box 1155 Juneau, Alaska
1	Laboratory Director Biological Laboratory Bureau of Commercial Fisheries P. O. Box 6121, Pt. Loma Street San Diego, California	1	Laboratory Director Biological Laboratory Bureau of Commercial Fisheries P. O. Box 6 Woods Hole, Massachusetts
1	Commandant (OFU) U. S. Coast Guard Washington 25, D. C.		
1	Commanding Officer U. S. Coast Guard Oceanographic Unit c/o Woods Hole Oceanographic Institution Woods Hole, Massachusetts	1	Laboratory Director Biological Laboratory Bureau of Commercial Fisheries P. O. Box 280 Brunswick, Georgia
1	Director Coast & Geodetic Survey U. S. Department of Commerce Washington 25, D. C. Attn: Office of Oceanography	1	Laboratory Director Biological Laboratory Bureau of Commercial Fisheries P. O. Box 271 La Jolla, California
1	Mr. James Trumbull U. S. Geological Survey Washington 25, D. C.	1	Bureau of Sport Fisheries and Wildlife U. S. Fish and Wildlife Service Sandy Hook Marine Laboratory P. O. Box 428 Highlands, New Jersey Attn: Librarian
1	Director of Meteorological Research U. S. Weather Bureau Washington 25, D. C.		
1	Director U. S. Army Engineers Waterways Experiment Station Vicksburg, Mississippi Attn: Research Center Library	1	Director National Oceanographic Data Center Washington 25, D. C.
		2	Defence Research Member Canadian Joint Staff 2450 Massachusetts Avenue, N. W. Washington 8, D. C.
1	Laboratory Director Bureau of Commercial Fisheries Biological Laboratory 450-B Jordan Hall Stanford, California	2	Library, U. S. Weather Bureau Washington 25, D. C.

1	Director, Biological Laboratory Bureau of Commercial Fisheries Navy Yard Annex Building 74 Washington 25, D. C.	1	Director Hudson Laboratories 145 Palisade Street Dobbs Ferry, New York
2	Director, Bureau of Commercial Fisheries U. S. Fish & Wildlife Service Department of Interior Washington 25, D. C.	1	Great Lakes Research Division Institute of Science & Technology University of Michigan Ann Arbor, Michigan Attn: Dr. John C. Ayers
1	Dr. Orlo E. Childs U S Geological Survey 345 Middlefield Road Menlo Park, California	1	Dr. Harold Haskins Rutgers University New Brunswick, New Jersey
1	Dr. John S. Schlee U. S. Geological Survey c/o Woods Hole Oceanographic Institution Woods Hole, Massachusetts	1	Director Chesapeake Bay Institute Johns Hopkins University 121 Maryland Hall Baltimore 18, Maryland
<u>RESEARCH LABORATORIES</u>		1	Mail No. J-3009 The Martin Company Baltimore 3, Maryland Attn: J. D. Pierson
2	Director Woods Hole Oceanographic Institution Woods Hole, Massachusetts	1	Mr. Henry D. Simmons, Chief Estuaries Section Waterways Experiment Station Corps of Engineers Vicksburg, Mississippi
3	Project Officer Laboratory of Oceanography Woods Hole, Massachusetts	1	Oceanographic Institute Florida State University Tallahassee, Florida
1	Director Narragansett Marine Laboratory University of Rhode Island Kingston, Rhode Island	1	Director, Marine Laboratory University of Miami #1 Rickenbacker Causeway Virginia Key Miami 49, Florida
1	Bingham Oceanographic Laboratories Yale University New Haven, Connecticut	1	Nestor C. L. Granelli Department of Geology Columbia University Palisades, New York
1	Gulf Coast Research Laboratory Post Office Box Ocean Springs, Mississippi Attn: Librarian	2	Head, Department of Oceanography & Meteorology Texas A&M College College Station, Texas
1	Chairman Department of Meteorology & Oceanography New York University New York 53, New York	1	Director Scripps Institution of Oceanography La Jolla, California
1	Director Lamont Geological Observatory Torrey Cliff Palisades, New York		

1	Allan Hancock Foundation University Park Los Angeles 7, California	1	Mr. J. A. Gast Wildlife Building Humboldt State College Arcata, California
1	Head, Department of Oceanography Oregon State University Corvallis, Oregon	1	Department of Geodesy & Geophysics Cambridge University Cambridge, England
1	Department of Engineering University of California Berkeley, California	1	Applied Physics Laboratory University of Washington 1013 NE Fortieth Street Seattle 5, Washington
1	Director Arctic Research Laboratory Barrow, Alaska	1	Documents Division - ml University of Illinois Library Urbana, Illinois
1	Dr. C. I. Beard Boeing Scientific Research Laboratories P. O. Box 3981 Seattle 24, Washington	1	Director Ocean Research Institute University of Tokyo Tokyo, Japan
1	Head, Department of Oceanography University of Washington Seattle 5, Washington	1	Marine Biological Association of the United Kingdom The Laboratory Citadel Hill Plymouth, England
1	Geophysical Institute of the University of Alaska College, Alaska	1	ASW Information Research Unit Building 80, Plant A-1 Lockheed-California Company Burbank, California
1	Director Bermuda Biological Station for Research St. Georges, Bermuda	1	New Zealand Oceanographic Institute Department of Scientific and Industrial Research P. O. Box 8009 Wellington, New Zealand Attn: Librarian
1	Department of Meteorology & Oceanography University of Hawaii Honolulu 14, Hawaii Attn: Dr. H. M. Johnson	1	President Osservatorio Geofisico Sperimentale Trieste
1	Technical Information Center, CU-201 Lockheed Missile and Space Division 3251 Hanover Street Palo Alto, California	1	Advanced Research Projects Agency Attn: Nuclear Test Detection Office The Pentagon Washington 25, D. C.
1	University of Pittsburgh Environmental Sanitation Department of Public Health Practice Graduate School of Public Health Pittsburgh 13, Pennsylvania	1	Chemistry Department College of Engineering University of Wisconsin Madison 6, Wisconsin
1	Director Hawaiian Marine Laboratory University of Hawaii Honolulu, Hawaii		
1	Dr. F. B. Berger General Precision Laboratory Pleasantville, New York		